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The Topical Quality Assurance Report (FPLTQAR 1-76A) contains the description of the Florida Power & Light Company (FPL) Quality Assurance Program relative to its nuclear power plants. This report consists of three parts: The Introduction, which delineates the purpose and summarizes the scope and applicability of the Topical Quality Assurance Report. The second part, Topical Quality Requirements (TQRs), which delineate Quality Assurance Program requirements and summarizes the FPL approach to activities related to materials, parts, components, systems and services included in the Quality Assurance Program. The third part, Appendices, which provide supporting statements, tabulations, and technical analyses or deviations which are not, in themselves, the subject of the report.

The Topical Quality Assurance Report-shall be an integral part of the Quality Assurance Manual (FPL-NQA 100A), and shall delineate the generic requirements and responsibilities by which FPL implements the corporate Quality Assurance Program. Revisions and changes to this Report will be made in accordance with a Quality Procedure as outlined in TQR 2.0. The remainder of the Quality Assurance Manual is comprised of Quality Procedures (QPs) which serve as the documents which describe how the interfacing of tasks between departments or organizations is achieved. The Quality Procedures also cover those technical elements which require a common corporate position for interfaces or resolution of problem areas.

The corporate Quality Assurance Manual (FPL-NQA-100A) consists of the Topical Quality Assurance Report and a Glossary of commonly used terms. The Topical Quality Assurance Report delineates the generic requirements and responsibilities by which FPL implements the corporate Quality Assurance Program. Revisions and changes to this report are made in accordance with a Quality Instruction outlined in TQR 2.0.

In addition to the Quality Assurance Manual, Quality Instructions (QIs) are developed as required by each of the implementing plants and departments. Quality Instructions describe the measures to be used to implement the quality requirements of the Quality Assurance Manual. The Quality Instructions describe actions and responsibilities to be performed within a department or organization and address the requirements of the appropriate Topical Quality Requirements.

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The FPL Quality Assurance Program meets the requirements provided by the NRC Regulatory Guidance and Industry Standards as listed in Appendix C of this Topical Quality Assurance Report.

The requirements of this Topical Quality Assurance Report apply to safety-related materials, parts, components, systems and structures; services employed for design, procurement construction, operation, maintenance, refueling, repair, and modification; and packaging and shipping of radioactive material (but not design and fabrication of packages for which a license, certificate of compliance, or other approval must be issued by the NRC) in accordance with 10 CFR part 71. The safety-related systems for each plant are specified in the respective plant Safety Analysis Report.

The FPL Quality Assurance Program fully addresses the requirements of Appendix B to 10 CFR Part 50. The Topical Quality Assurance Report shall be applicable to all existing nuclear plants, those under construction, and supporting FPL departments, and will be referenced in the Safety Analysis Report (SAR). For future plants, the description of activities, requirements, and organizations structures that are unique to a particular plant shall be addressed in the respective SAR document.

Vice President Nuclear Assurance

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#### 1.1 GENERAL REQUIREMENTS

The Florida Power & Light (FPL) organizational structure shall be defined such that the responsibilities for establishment and implementation of the Quality Assurance Program are clearly identified. The authority and duties of individuals and organizations performing quality assurance and quality control functions shall be described, and shall illustrate the organizational independence and authority necessary to identify problems; to initiate, recommend; or provide solutions; and to verify implementation of solutions. In addition, the description shall illustrate that persons or groups responsible for verifying the correct performance of an activity are independent of the person or groups responsible for performing the activity.

#### 1.2 IMPLEMENTATION

The FPL Chairman of the Board and Chief Executive Officer is ultimately responsible for the execution of the Quality Assurance Program for FPL nuclear power plants. The authority for developing and verifying execution of the program is delegated to the President Nuclear Division and the Vice President Nuclear Assurance. The reporting relationship of each department involved with the Quality Assurance Program is shown in Appendix A.

To provide for a review and evaluation of Quality Assurance Program policies and activities, the President Nuclear Division has established the Company Nuclear Review Board (CNRB). This organization's responsibilities are defined in Section 1.23, 1.5.a.

In addition, a Quality Assurance Program Review Committee (QAPRC) has been established to review changes to the Quality Assurance Program and to provide an interface for quality matters in each department affecting quality. The QAPRC is an interdepartmental organization with the responsibility to review and resolve recommended changes to the Quality Assurance Program. This committee is administered by the Quality Assurance Services group. Quality Assurance Program changes reviewed by the QAPRC

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are reviewed and signed by the affected department heads or-individuals-listed-on-each. Quality-Procedure.

A Quality Assurance Program Review Committee (QAPRC) Member shall be designated by the head of each department or organization. The QAPRC Member is the prime interface for coordination of quality matters within the member's department, with the Quality Assurance Department, and with other departments.

The head of each department or organization performing activities affecting quality is responsible for: a) identifying those activities within the organization which affect quality as defined by the Quality Assurance Program; b) establishing and clearly defining the duties and responsibilities of personnel within his organization who execute those activities affecting quality; and c) planning, selecting, and training personnel to meet the requirements of the Quality Assurance Program. The responsibility, authority, and organizational relationship for performing activities affecting quality within each organization shall be established and delineated in organizational charts and written job or functional descriptions.

Activities affecting quality may be performed by FPL or be contracted. Should any of these functions be contracted, the contractor may perform the activities under his own Quality Assurance Program, which must have prior approval by FPL Quality Assurance, or the contractor may directly adopt the requirements of the FPL Quality Assurance Manual. If the contractor implements the Quality Control function directly to the FPL Quality Assurance Manual requirements, the contractor's Quality Control Supervisor shall have the authority and freedom to administer the Quality Control program.

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#### 1.3 <u>RESPONSIBILITIES</u>

The organization charts in Appendix A illustrate the lines of authority and areas of responsibility for each of the organizations that are involved in activities affecting quality. Below are listed the departments and organizations that have Qquality Aassurance responsibilities. Specific oOrganizational responsibilities for implementation of the Quality Assurance Program are described in the corresponding sections the Topical Quality Requirements (TQRs).

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<u>1.<del>2</del>3.1</u>	Nuclear Division	<u>1.23.2</u>	Support Departments
1.23.1.1	Plant Vice Presidents	1. <del>2</del> 3.2.1	Administrative Services - Corporate Records - Documentary Files
1.23.1.2	Nuclear Services		
<del>1.2.1.3</del>	-Nuclear-Construction-Services	1. <del>2</del> 3.2.2	Environmental Affairs
1.23.1.43	Nuclear Engineering	1.23.2.3	Protection & Control Systems
	and Licensing	.1. <del>2</del> 3.2.4	Information Management
1.23.1.54	Nuclear Assurance		
1 23 1 65	Nuclear Analysic and Controls Rusi	ness Ser	vices

#### 1.23.1 Nuclear Division

Throughout plant life, the Nuclear Division maintains control of and responsibility for nuclear power plant design, preoperational and start-up testing, operation, maintenance, refueling, and modification of the plant in accordance with written and approved procedures.

The President Nuclear Division has overall responsibility for the Nuclear Division's activities including corporate responsibility for overall plant nuclear safety. Reporting to the President Nuclear Division are: the Vice President - Turkey Point Plant, Vice President - St. Lucie Plant, Vice President Nuclear Assurance, Vice President Nuclear Engineering and Licensing, Director Nuclear Services, Director Nuclear Construction Services, and the Manager Nuclear Analysis and Controls Business Services.

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The Company Nuclear Review Board (CNRB), reporting to the President Nuclear Division, is comprised of executive level members of management with responsibilities for the execution of the Quality Assurance Program. The CNRB reviews, or directs the performance of reviews of, activities concerning the technical aspects of the operating nuclear power plant insofar as they impact plant safety, the health and safety of the public, and laws, regulations and licensing commitments. In addition, audits of these areas are performed under the cognizance of the CNRB.

The CNRB composition is described in Section 6.0 of each facility's Technical Specifications. Subjects within the purview of the CNRB are listed in the appropriate plant Technical Specifications. The CNRB has the authority to carry out its responsibilities by way of written action letters, verbal directions, meeting minutes or appointed subcommittees. Where necessary, the CNRB may use consulting services to perform required reviews.

The CNRB is responsible for reviewing and evaluating Quality Assurance Program policies and activities. Quality Assurance Program status reports shall be periodically given by the Quality Assurance Department.

CNRB meetings shall be held by the Chairman to keep members apprised of conditions including significant problems that require management attention. Periodic audits of the Quality Assurance Department shall be performed by a team independent of the Quality Assurance Department. The results of this audit are presented to the Vice President Nuclear Assurance and the CNRB.



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#### 1.23.1.1 Plant Vice Presidents

The Vice President-St. Lucie Plant and Vice President-Turkey Point Plant are accountable for the operation, maintenance, and modification of their respective nuclear plant, as well as the selection, development and direction of the assigned staff. They will act as liaison between the plants and corporate headquarters, and are accountable for ensuring that company policies and procedures are properly implemented and continued at the nuclear site, including procurement and control of material. The Plant Vice President has overall responsibility for implementation of the Environmental Protection Plans at their respective sites.

Reporting to the Plant Vice President - Turkey Point Plant are the Plant General Manager, the Services Manager, the Human Resources Manager, the Business Systems Manager, the Materials Management Manager, and the Licensing Manager. Also, the Plant Vice President has functional responsibility over the Site Engineering Manager providing work direction to this group.

Reporting to the Vice President - St. Lucie Plant are the Plant General Manager, the Services Manager, the Licensing Manager, the Materials Management Manager, and the Human Resources Manager. Also, the Plant Vice President has functional responsibility over the Site Engineering Manager, Manager-Nuclear Material Management and the Site Construction Manager providing work direction to those this groups.

The Plant General Manager - PSL and Plant General Manager - PTN, through the respective Plant Vice President, are responsible for the operation of the nuclear plant.

The Plant Nuclear Safety Committee (PNSC) at Turkey Point Plant and the Facility Review Group (FRG) at the St. Lucie Plant are comprised of key plant management and staff personnel as described in the plant Technical Specifications. The PNSC/FRG serves the plant manager in a technical advisory capacity for the review of all safety-related procedures and activities that impact plant safety and the facility operating license.

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#### 1.23.1.2 Nuclear Services

The Director Nuclear Services is accountable for technical staff support to the Nuclear Plants and certain centralized special functions. Reporting to the Director Nuclear Services are the Manager Nuclear Training, Manager Nuclear Security, Manager Nuclear Health Physics/Chemistry and the Manager Nuclear Emergency Preparedness.

a. The Manager Nuclear Training prepares policy documents regarding nuclear training and provides support to secure the necessary resources to ensure that Nuclear Division personnel are adequately trained. They must have adequate technical and job-related skills to provide safe and efficient operation while complying with NRC requirements.

b. The Manager Nuclear Security is responsible for coordinating the overall development and implementation of the FPL nuclear security program

c. The Manager Nuclear Health Physics/Chemistry provides technical support and assistance to the plants in the areas of health physics, chemistry, radioactive waste and hazardous material control.

d. The Manager Nuclear Emergency Preparedness provides technical support and assistance to plant and corporate management for activities associated with radiological emergency plans and procedures.

#### 1.2.1.3 -- Nuclear-Construction-Services

The Director – Nuclear Construction Services is responsible for directing and administering effective management of the department to ensure compliance to the corporate policies, practices and procedures; and providing qualified construction support personnel to the Site Construction Managers.

Reporting to the Director —Nuclear-Construction Services are the Manager Construction Control and the Site Construction Managers.

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a- Th	- Manager-Construction-Control is responsible for:-	ı
•		neering-activities as
	budgeted by the Construction Services organization;	-
		-expended_against
	Construction-Services budgeted activities; and	
<del></del>		<del>on-equipment-at-all</del> -
	Construction-Services locations.	
b. The	Site Cönstruction Manager is responsible for:	
		technical and other
	project-specifications, and-for-the-application-of-the	-provisions of the
	Quality Assurance Manual-during-the project;-	•
• <u> </u>		erials Management)
	from-contractor's-management-and, when-necessa	<del>ry, exercising the</del>
	authority to stop work on project activities adverse to q	uality.
	orting to the Site Construction Manager are the Lead Constru	action Supervisors.
The	-Lead-Construction-Supervisor-is-responsible-for-confe	<del>rmance-of-project</del>
<del>con</del>	struction-activities-to-the-requirements-of-specifications, cod	es, regulations and
<del>sito</del>	-procedures. The Lead Construction Supervisor-supervise	e-the-construction
pere	connel-assigned-to-the project, and coordinates construction (	ectivities, including
the-	assignment of construction personnel.	
The	overall-responsibility for-Plant-Changes and Modifications to	-operating-plants-is-
defi	ned-in-each-plant's-Technical-SpecificationsThe-work	of-installation and
adm	inistration of Plant Changes and Modifications can be as	signed-to-Nuclear
Con	struction-ServicesThe-Site-Construction-Manager-will-repo	rt-to-the-Director-
Nuc	lear-Construction Services; however, the -Vice-President	-PSL or Services
Mor	ager PTN has functional responsibility over the Site Constr	uction Manager by
TVIUL		aonon managor oy

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Project Team Members-are appointed by their home department heads as the departmental representative on the respective project, when requested by the Site Construction Manager. Team Members, other than Quality Assurance, report functionally to the Site Construction Manager, but continue to receive administrative support and technical direction from their home department. Team members are responsible to the Site Construction Manager for home department support to the project.

Activities affecting quality may be performed by FPL or contracted. Should any of these functions be contracted, the contractor may perform the activities under his own-Quality Assurance Program, which must have prior approval by FPL Quality Assurance, or the contractor may directly adopt the requirements of the FPL Quality Assurance Manual. If the contractor implements the Quality Control function directly to the FPL Quality Assurance Manual requirements, the contractor's Quality Control Supervisor-shall have the authority and freedom to administer the Quality Control program.

#### 1.23.1.43 Nuclear Engineering and Licensing

The Vice President Nuclear Engineering and Licensing is responsible for nuclear plant design, materials management at Juno Beach, contract activities and maintaining the operating licenses.

Reporting to the Vice President Nuclear Engineering and Licensing are the Director-Nuclear Engineering, Manager - Turkey Point Engineering, Manager - St. Lucie Engineering, Director-Nuclear Manager - Licensing and Special Programs, Director Manager --Nuclear Materials Management, -Manager Director - Nuclear Information Services Technical Support, Manager-Project Controls, and the Nuclear Records Official Component Support and Inspections, and the Manager - St. Lucie Steam Generator Repair Project.

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#### a. Nuclear Engineering-Department

The Nuclear Engineering-Department includes personnel located at both nuclear sites and at the corporate office. Nuclear Engineering performs design-related activities and delegates design-related activities to qualified contractors. For activities performed by Nuclear Engineering, the work is governed by FPL's Quality Assurance Program, and Nuclear Engineering is responsible for approval of the design output. Delegated activities are performed in accordance with an FPL approved Quality Assurance Program and the contractor is responsible for approval of design output. Nuclear Engineering is responsible for defining the scope of delegated activities and the responsibilities of the contractor. Prior to the release of design outputs by contractor organizations, Nuclear Engineering ensures that the contractor is technically qualified to perform the design-related activity.

The Director—Nuclear-Engineering The Manager - Turkey Point Engineering and the Manager - St. Lucie Engineering provide on-site engineering support and direct the engineering aspects of all FPL nuclear power plant projects during construction and operation to assure efficient, economical and reliable power plant design, conformance with engineering schedules and budgets and compliance with regulatory requirements. The Manager—Turkey Point-Engineering and Manager—St. Lucie Engineering are responsible for onsite engineering support to the nuclear units.—The Director—Nuclear Engineering is responsible for engineering projects and support at the Corporate Nuclear Engineering Office.—Project Managers are assigned to provide overall management and control of designated projects as required by the Vice President—Nuclear Engineering and Licensing.

The Nuclear Engineering Department is responsible for:

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- o power plant design related aspects of the FPL Quality Assurance Program throughout all phases of plant life. This responsibility extends from initial engineering evaluations of plant design-related site characteristics, through preliminary and detailed design, construction, operation and decommissioning;
- development and maintenance of the design control program governing design-related activities performed by Nuclear Engineering and for providing technical support to the Quality Assurance Department for ässessing the adequacy, implementation and effectiveness of contractor design control programs;

o the preparation, revision, approval and distribution of plant design records that are identified to be maintained as "as constructed" drawings during plant operation;

- o the development, control, and performance of certain aspects of items and services procurement, including establishment of procurement standards, the technical evaluation, equivalency evaluation, and commercial grade dedication of replacement parts/components for nuclear plants.
- o review of the technical and quality requirements in procurement requisitioning documents and changes thereto for safety related and quality related items and services, as well as configuration control activities for controlled design documentation associated with procurement. The review shall be performed by individuals other than the document originator;

Aspects of the above activities are performed by the Juno Beach Engineering organization as determined by the Vice President Engineering and Licensing.

- forecasting-FPL's-nuclear-fuel-requirements and the availability of nuclearfuel;
- determining-cources-of-supply, evaluating-alternatives, and negotiating and-establishing-arrangements with-suppliers-for-acquisition, processing and delivery of nuclear-fuel and related services for the nuclear-fuel cycle;
- e assuring-that-technical-and-quality-requirements (including-inputs-from

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other-FPL-departments) are incorporated in fuel-contracts and letters of authorization, and that these documents have the necessary approvals;

administering and managing-contracts for nuclear fuel and related services to-assure-that-technical and-quality obligations are met, and serving as FPL-liaison in all matters of nuclear fuel and fuel-related contracts;-

administering and managing spent-fuel-disposal-contracts with Department of Energy and serving as FPL-liaison in matters of nuclear fuel-and high level waste disposal;

performing-the-project-management-function-with-respect-to-fuel management, design, licensing, delivery-and-other-technical aspects-ofnuclear fuel;

all-fuel-related-design, -analyses, -reviews, -and -technical-assistance necessary-to-ensure the-safe, reliable, and economic-operation of the nuclear-plants;

the optimization of nuclear fuel-cycle economics within nuclear safety and operating constraints, as well as providing fuel-related information, such as forecasts of nuclear fuel-requirements to support licensing and regulatory requirements;

+ the development and/or review of fuel and nuclear physics design;

implementing-and-maintaining-the-FPL-corporate-nuclear-material accountability-program-as-outlined-in-the-FPL-Special Nuclear-Material Control-Manual;

• providing-support-to-the Quality Assurance-Department-for-their-auditingof-nuclear-fuel-design and-fuel-assembly-manufacturing;

performing audits and coordinating accountability reporting on all nuclear fuel;

 developing and providing, to appropriate FPL groups, information necessary to determine FPL's fuel related costs and to finance fuel related expenditures;

 providing-technical support-of-activities-associated with-componentreliability, materials evaluations, inspections, corrosion protection, nondestructive examination, and ASME Section XI-implementation/problem resolution-for-nuclear plant components;

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	destructive examination and inspections;	
·	<ul> <li>establishing-the-FPL-Welding-Program-to-meet-the requirements-of-the Quality-Assurance-Program and applicable codes and standards;</li> <li>developing,-maintaining, and-controlling-the-FPL-Welding-Control Manual to implement the FPL-Welding Program;</li> </ul>	
	O originating and qualifying welding procedure specifications; and	
	Program	

The Nuclear Licensing and Special Programs Department is responsible for engineering activities at the Juno Beach office and licensing activities as follows:

- o Engineering assurance;
- o Probalistic risk management;
- o Electrical engineering support;
- o Civil engineering support;
- o Mechanical engineering support;
- o Configuration management and document control;
- o Nuclear Division corporate interface with the NRC;
- o Nuclear Division corporate administrative point of contact with INPO;
- Managing NRC safety and regulatory issues and developing effective strategies to resolve them;
- Advising senior Nuclear Division management on a regular basis of important developments in licensing areas which could significantly affect the Nuclear Division;
- o Providing Nuclear Division licensing hearing and legal services;
- Providing corporate licensing support and guidance to onsite licensing organizations;
- o Administering the Nuclear Problem Reporting System;
- o Administering the Commitment Tracking System;
- o Administering the Operating Experience and Feedback System.

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	с.	wuclear Materials Management Department	
		The Nuclear Materials Management Department is responsi	ble for:
		e- negotiation,-procurement-and-management-of-contra	<del>icts (except-nuclear</del> -
		fuel);	
		-O- purchase and control of materials;	a. Demonstructure de dis
		0- and-the-administrative duties to support these activitie	<del>6;-Keporting-to-the</del>
·· - · "	Director-Nuclear-Materials-Management-are-the-Supervisors-of-Co		VISORS-OF-CONTRACTS
		(JURO-BOUCH), and the Site-Managers-or-Nuclear Ma	tornans-wanagement
		<del>(141Koy-10111-4114-31124610).</del>	
		1) Nuclear Contracts-	
		Nuclear Contracts is responsible for	
		o negotiation, generation, -and issuance, and manag	ement of contracts
		(except nuclear fuel) and purchase orders for r	equired contracted
		services supporting the operation, licensing, mainten	ance, modification,
		and inspection of FPL nuclear plants, and for material	s and equipment to
		support Nuclear Division staff; The Site Managers o	I-Nuclear-Materials
1		Management (Turkey Point-and-St. Lucie) are respo	Sible-for-Nuclear
		Contracts activities performed at the respective sites.	+ne-Supervisors-of-
ł		Contracts (Juno Beach) are responsible for Nuclear	
1		13	
		Nuclear-Contracts is also responsible for	
		o reviewing procurement documents to assure that tec	chnical and quality
		requirements developed by others are incorporated in	to the procurement
	1	documents which it authorizes;	
		o and ensuring that the requisitioning documents	have the required
		approvals; Services for nuclear safety related applic	cations-are-secured
		only-from-approved-suppliers,-or-as-commercial-gr	ade,-as-applicable
		Nuclear-Contracts is responsible for	
		o maintaining traceability of procurement document	records for which

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		they are responsible until transmitted to an approve	d storage facility.
		-2)Purchasing and Warehousing-	
[		- The-SiteManagers of Materials-Management (Tur Lucie) are responsible for the procurement and contr Plant-materials and equipment.	<del>rkey Point-and-St.</del> r <del>ol-of-FPL-Nuclear</del>
	d. Pre	<ul> <li>Purchasing-is responsible for the procurement equipment by FPL for its nuclear power plants with nuclear fuel procurement. Materials and equipment related application are secured only from approve commercial grade, as applicable. Purchasing-reviewing procurement documents to assure that the requirements developed by others are incomprocurement document which it authorizes, and that documents have the required approvals. Purchasing-for-maintaining traceability of procurement document transmitted to an approved storage facility.</li> <li>Warehousing is responsible for the receipt, handle and shipping of materials and equipment received for control by Warehousing. This responsible material, parts and components for plant equipment and custody. During operations, Warehousi additional quality related activities such as receipt than safety related materials and equipment and segregation for nonconforming items received for materials.</li> </ul>	t-of-materials and ith the exception of it-for-nuclear-safety ed-suppliers, or as is responsible for echnical and quality rporated-into-the t-the requisitioning sing is responsible ment records until ing, storage, issue at-the nuclear-plant collity encompasses -while in their care ng-also-performs inspection of other edhandling-and eaterial-control.
		e Project Controls Department is responsible for:	
	<del>0</del>	Coordinating-the-establishment-of-scope-baseline- Engineering,-Nuclear-Materials-Management, and P	-fortheNuclear- Juclear-Licensing-

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	 Departments. Developing estimates for the scope, and annually esta the work to be performed.	blishing-budgets for

 Reforecasting-costs-and-schedule-based-on-performance-history-andemergent-trends.

 Providing-management-with-corrective-action-recommendations, and implement-same into revised-scope, cost, and schedule baselines.

ed. Nuclear Information Services Department- Technical Support

The Nuclear Information-Services-Department Technical Support is responsible for the identification, design, development, implementation, ongoing maintenance, and control of all Nuclear Division data processing information systems excluding process applications.

This encompasses the following accountabilities:

- o directing the development, implementation, and on-going maintenance of information management systems;
- coordinateing and directing the computer hardware and telecommunication planning and control within the Nuclear Division;
- o ensurging that the Nuclear Division's information management program is in full compliance with software quality assurance regulations and guidelines;
- o administering and controlling system access;
- o executeing software production release and change control activities;
- o administering physical databases and provideing on-going technical support

Nuclear Technical Support is also responsible for nuclear fuel engineering and procurement activities including the following:

o determining sources of supply, evaluating alternatives, and negotiating and establishing arrangements with suppliers for acquisition, processing and delivery of nuclear fuel and





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related services for the nuclear fuel cycle;

- o assuring that technical and quality requirements (including inputs from other FPL departments) are incorporated in fuel contracts and letters of authorization, and that these documents have the necessary approvals;
- o administering and managing contracts for nuclear fuel and related services to assure that technical and quality obligations are met, and serving as FPL liaison in all matters of nuclear fuel and fuel-related contracts;
  - administering and managing spent fuel disposal contracts with Department of Energy and serving as FPL liaison in matters of nuclear fuel and high level waste disposal;
- o performing the project management function with respect to fuel management, design, licensing, delivery and other technical aspects of nuclear fuel;
- o all fuel related design, analyses, reviews, and technical assistance necessary to ensure the safe, reliable, and economic operation of the nuclear plants;
- o the optimization of nuclear fuel cycle economics within nuclear safety and operating constraints, as well as providing fuel related information, such as forecasts of nuclear fuel requirements to support licensing and regulatory requirements;
- o the development and/or review of fuel and nuclear physics design;
- o implementing and maintaining the FPL corporate nuclear material accountability program as outlined in the FPL Special Nuclear Material Control Manual;
- o providing support to the Quality Assurance Department for their auditing of nuclear fuel design and fuel assembly manufacturing;
- o performing audits and coordinating accountability reporting on all nuclear fuel;

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The Nuclear Records Official, reporting to the Director Technical Support, is responsible for:

- 0 ensuring the Quality Assurance records program activities are managed in accordance with applicable laws and regulations;
- developing, approving, and maintaining record retention schedules: 0
- 0 establishing parameters for records indexing;
- locating acceptable record storage areas when requested; 0
- storage, retrieval and control of records/documents as requested by other 0 departments:
- leading the evaluation of specially designated QARSET approved storage 0 facilities, maintaining the records of this evaluation, and establishing schedules to assure that re-evaluations are performed every two (2) years.

# e. Component Support and Inspections

Component Support and Inspections is responsible for providing support to the plants as follows:

- 0 providing technical support of activities associated with component reliability, materials evaluations, inspections, corrosion protection, non-destructive examination, and ASME Section XI implementation/problem resolution for nuclear plant components;
- providing specific component expertise, metallurgical support, 0 and non-destructive examination and inspections;
- establishing the FPL Welding Program to meet the 0 requirements of the Quality Assurance Program and applicable codes and standards:
- developing, maintaining, and controlling the procedures and 0 instructions to implement the FPL Welding Program;
- originating and qualifying welding procedure specifications; 0 and
- providing technical direction to personnel within the FPL 0 Welding Program.

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The Vice President Nuclear Assurance is responsible for the selection, technical direction, administrative control (e.g. performance appraisal, salary review, hire/fire, position assignment) staffing, training and development of personnel required for supervisory and operating continuity of the Quality Assurance Department and the Nuclear Safety Assessment Group. The Vice President Nuclear Assurance also initiates QA Program policy changes when necessary. In addition, the Vice President Nuclear Assurance is responsible for selecting a team independent of the Quality Assurance Department to perform periodic audits of the Quality Assurance Department. The results of these audits are presented to the Vice President, Nuclear Assurance and the Company Nuclear Review Board (CNRB).

Reporting to the Vice President Nuclear Assurance are the Director Nuclear Safety Assessment, the Site Quality Manager - Turkey Point, the Site Quality Manager - St. Lucie and the Quality Manager - Juno Beach, and the PSL Steam Generator Project (SGP) Quality Assurance Manager for quality direction.

ba. Nuclear Safety Assessment Group

The Director Nuclear Safety Assessment has responsibility for the management and implementation of Nuclear Safety Speakout, PSL and PTN Independent Safety Engineering Groups (ISEG), and the CNRB subcommittee, <u>Additionally, he and</u> serves as the CNRB Chairman. <u>Reporting to the Director Nuclear Safety</u> Assessment are the Chairmen of ISEG at PTN and PSL, the Supervisors Nuclear Safety Speakout at PTN and PSL, the Nuclear Safety Speakout investigators at Juno Beach, and the CNRB Subcommittee Chairman.

The Nuclear Safety Speakout Program provides a forum for employees and contractors to communicate their concerns to FPL. Concerns are documented, investigated and corrective actions are taken when necessary. The program offers confidentiality.

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The Quality Assurance Department shall be responsible for administering the FPL Quality Assurance Program. This includes developing and verifying implementation of corporate policies, plans, requirements, and procedures affecting quality. This is accomplished through the Quality Assurance Department. The Quality Assurance Department retains responsibility for delegated portions of the Quality Assurance Program by performing initial evaluation and subsequent periodic audits of the contractors' Quality Assurance Programs. The Quality Assurance Program responsibility further extends to the performance of audits within the Company to assure management that the established requirements and procedures are being implemented, and that the Program complies with the baseline document requirements.

The organizational freedom of the Quality Assurance function is accomplished through the corporate structure, illustrated in Appendix A, which provides independence from those departments responsible for design, procurement, engineering, construction and operation. With quality assurance as its sole function the Quality Assurance Department, both on-site and off-site, is completely free from the cost and scheduling pressures of design, procurement, construction and operation. The Quality Assurance Department has the freedom and authority to: a) identify quality problems; b) initiate, recommend or provide corrective action; c) verify implementation of the corrective action; and d) recommend the stoppage of work or operations adverse to quality, when necessary. The Quality Manager - Juno Beach, the Site Quality Manager - St. Lucie and the Site Quality Manager - Turkey Point report administratively and functionally to the Vice President Nuclear Assurance. These reporting relationships assure that the Quality Assurance Department has direct access to the levels of management necessary to assure effective implementation of the Quality Assurance Program.

The duties, responsibilities, and authorities of each Quality Assurance group are described in the sections which follow.

1) Quality Assurance Services Group

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The Quality Manager - Juno Beach directs and administers the Corporate Quality Assurance Program assuring compliance with the baseline documents listed in Appendix C of this Topical Quality Assurance Report. Quality Assurance Services Group activities include the following:

- o develop and maintain the Quality Assurance Department Quality Instructions and the corporate Quality Assurance Manual, including the administration of the Quality Assurance Program Review Committee (QAPRC);
- o assist other departments in the development of Quality Instructions by review and comment and through interpretation of corporate Quality Assurance requirements;
- o develop and implement a Quality Assurance indoctrination program for FPL personnel, and a training program for the Quality Assurance Department;
- prepare reports on Quality Assurance Program activities for review by the CNRB;
- review Regulatory Guides, Codes, SAR Document Commitments and
  Standards for impact on the Quality Assurance Program and recommend appropriate program changes;
- o review documents submitted to the CNRB as requested by the Nuclear Assurance Department CNRB member;
- o plan, coordinate and implement a comprehensive system of periodic internal audits with support from the other Quality Assurance groups, when necessary;
- review FPL originated design specifications for inclusion of appropriate quality requirements.
- perform periodic activity audits of FPL procurement and associated documents and changes to these documents to assure that the necessary quality requirements are imposed.
- o assist in the development and implementation of policies, plans, requirements and procedures for the requisition and purchase of materials, equipment and services related to nuclear power plants and to the acceptance and storage of equipment and material;

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- o perform appropriate surveillance of hardware during manufacture;
- develop and implement a program for auditing of supplier Quality Assurance/Quality Control programs including Architect Engineer/Nuclear Steam Supply System Suppliers;
- o assure design-related activities performed by the Architect Engineer meet the quality aspects of the contract;
- o assist other FPL departments in the identification of quality problems associated with procurement and storage; initiate, recommend, or provide solution; and verify implementation of solutions;
- o review, approve and periodically audit the execution of FPL contractor quality assurance programs;

o assures that the contractors' organizations performing Quality Assurance functions have sufficient authority and organizational freedom to implement effective Quality Assurance programs;

- o evaluate the Quality Assurance capability of suppliers requested by the Nuclear Materials Management Department and maintain the Quality Assurance Department list of Aapproved Ssuppliers List;
- o provide NDE Level III services including technical direction and monitoring of NDE activities performed by Quality Control at the plant sites (PTN and PSL); preparation, revision and implementation of NDE procedures; training, testing and qualification of NDE personnel, and providing the programs and direction for NDE activities meeting the ASME, AWS and other NDE code requirements;
- o maintain a file system for documentation of quality assurance activities performed.

For purchased items and services, the responsibility of this group extends through receipt of shipment or performance of contract.

2) Site Quality Assurance Groups - Turkey Point Nuclear (PTN) and St. Lucie (PSL)

Quality Assurance activities at the plant sites (PTN and PSL) are accomplished by the respective site Quality Assurance Ggroups, reporting

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to the Site Quality Manager. The Site Quality Manager has responsibility for on-site development and implementation of the Quality Assurance Program, including the following:

- o coordinate the development and implementation of policies, plans, requirements, and procedures for portions of the quality assurance program related to the operation and modification of nuclear power plants at the plant site;
- perform audits, assessments and other observations as specified in procedures and instructions to verify compliance with Quality Assurance Program commitments, identify quality problems and ensure timely corrective actions are taken in the areas of plant operation, system turnover, modification and maintenance; including such areas as refueling, inservice inspection and testing, material storage, health physics, chemistry, plant security and fire protection;
- o perform periodic activity audits of site generated FPL procurement and associated documents and changes to these documents to assure that the necessary quality requirements are imposed;
- o identify requirements, ensure inclusion of commitments in documents and verify implementation of the Quality Assurance Program during construction activities at the plant site through audits of FPL and contractor organizations;
- o recommend stoppage of work or operations adverse to quality at the plant site in accordance with the appropriate Quality instructions Procedures;
- o review and comment on Quality Instructions or equivalent quality administrative procedures prior to issue, with respect to the requirements of the FPL Quality Assurance Program, the applicable Final Safety Analysis Report, and the applicable Technical Specifications;
- o assure that the status is tracked for all open items identified by the Site Quality Assurance group, and inform appropriate management when there is an indication that a commitment will not be met on time;
- e review backfit-procedures-with-respect to the FPL-Quality-Assurance

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Program (for-procedure-review-requirements-see TQR 5.0);

- o perform audits of the architect engineer and Nuclear Steam Supply System suppliers both on-site and off-site, in conjunction with the Quality Assurance Services group
- o maintain a file system for documentation of quality assurance activities performed by the Site Quality Assurance group.

The interface with the Quality Assurance Services group ends with the receipt of a shipment of nuclear safety-related equipment at the plant site. The Quality Assurance program for the shipment is then within the purview of the Site Quality Assurance group.

The Quality Manager - Turkey Point and Quality Manager - St. Lucie are additionally responsible for the establishment and implementation of quality control aspects of the Quality Assurance Program at the plant site. Reporting directly to the Site Quality Manager are the Quality Control Supervisors who have the authority and freedom to administer the Quality Control program and, when necessary, to stop activities adverse to quality. The Quality Control Supervisors and personnel performing Quality Control inspection functions are required to be independent of groups or persons performing activities that they may be required to verify or inspect.

Quality Control efforts responsibilities include:

- o preparation and review of plant procedures, PCMs design control documents, and instructions for activities affecting quality; Quality-Control personnel are also responsible for
- inspection, monitoring, surveillance, and review of plant activities to verify compliance with the provision of the facility operating license and the Quality Assurance Manual;
- o inspections are also performed to assure that backfit activities meet the requirements of engineering drawings, specifications, codes and standards;

o <u>This responsibility extends from receipt inspections of material:</u>

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- on-site-to-acceptance of the installed items prior-to-turnover to the Plant; It-also-includes
- verification of conformance of an items or activityies accomplished during this-period to quality requirements (e.g., records review, NDE, inspections); -The Quality Control Supervisors shall take
- o corrective action for deficiencies identified, where applicable;
- and-shall follow up on corrective action taken by other organizations until close out.

Off-site interfaces for the resolution of quality problems and NRC items are with Nuclear Corporate Staff, FPL support departments as indicated in this Topical Quality Assurance Report, the architect engineer and the Nuclear Steam Supply System (NSSS) Quality Assurance Department. The Site Quality Assurance group interfaces with the Plant Vice President and his staff on-site by assisting in the resolution of quality problems.

# 1.23.1.65 Nuclear Analysis and Controls Business Services

The Manager Nuclear Analysis-and-Controls Business Services , reporting to the President-Nuclear-Division, is responsible for coordinating the budget, rate, and cost control support to the plants and staff organizations; and coordinating Division business planning, target setting and monitoring of key performance indicators, and operations analysis activities.

# 1.23.2 Support Departments

Providing support activities for the Nuclear Division are Administrative Services, Environmental Affairs, Protection & Control Systems, and Information Management. The reporting relationship of each department is described in the following sections and is shown in Appendix A.

# 1.23.2.1 Administrative Services

Reporting to the Manager-Administrative Services are the Supervisor Corporate Records

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Services and the Supervisor Documentary-Files.

Corporate Records-Services

The Supervisor Corporate Records Manager Administrative Services is responsible for:

- storage, retrieval and control of Quality Assurance records received from other departments;
- assisting with the development and implementation of records and micrographics programs;
- maintaining a QARSET approved storage facility;
- b. Documentary-Files

The Supervisor Documentary Files is responsible for

• receiving, maintaining, retrieving and storing the Quality Assurance records transmitted from other departments in connection with licenses and contracts received from other departments.

### 1.23.2.2 Environmental Affairs

Environmental Affairs is responsible for obtaining the federal and state environmental permits required for FPL facilities and operations. Environmental Affairs is responsible for overall coordination of non-radiological environmental monitoring (federal and state) programs at the nuclear power plant sites.

The Manager Hazardous Substances Regulation, the Manager New Construction Licensing and Planning, the Manager Air and Water Permitting and Programs, the Chief Ecologist, and the Environmental Toxicologist report to the Director Environmental Affairs. The Plant Vice President has overall responsibility for implementation of the Environmental Protection Plans at nuclear power plant sites.

The Director Environmental Affairs Department-through its management of the Company Environmental Review Group (CERG) is responsible for:

o overall coordination of non-radiological environmental monitoring programs and

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oversight of other requirements related to the Environmental Protection Plans;

- The-CERG-providesing review of proposed changes to the Environmental Protection Plans;
- review of any violations of monitoring and/or limitation requirements of federal and state permits and Environmental Protection Plans; and-
- review of plant activities as described in those Environmental Affairs Department Environmental Procedures subject to QA requirements.

The CERG provides information to the Director Environmental Affairs and the CNRB Chairman on environmental matters for which requirements are included in Environmental Protection Plans.

### 1.23.2.3 Protection & Control Systems

The Director of Protection & Control Systems reports to the Vice President of Power Delivery.

Protection & Control Systems is responsible for:

- test, calibration and maintenance of certain high voltage electrical protective relays for safety-related systems of the nuclear plant;
- o Activities of Protection & Control-Systems-include final wiring connection checks;
- o preoperational check-out and test of system protection devices; and
- providing inspection of equipment under their cognizance; Additional responsibilities include
- o providing certain setpoint and checkpoint values for protective devices.

# 1.23.2.4 Information Management

Information Management consists of Computer Operations Services, Client Services, and Quality Management reporting to the Vice President of Information Management.

The Computer Operations Services Department is responsible for the installation and

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maintenance of the operating system software and the operation of the computer hardware for FPL's corporate computer systems. The application programs used by the nuclear departments executes on these corporate computers.

The-Manager-Computer-Center, the-Manager-Operations-Support-Services, and the Manager-Technical-Systems report to the Director Computer Operations Services.

Client Services is responsible for software libraries on FPL's in-house time-sharing Computer System (CMS) that are under its control.

Quality Management provides support to the Nuclear Division in their development and maintenance of computer applications in the area of software library controls.

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QUALITY ASSURANCE PROGRAM

# 2.1 <u>GENERAL REOUIREMENTS</u>

Florida Power & Light Company has established a Quality Assurance Program which complies with the criteria of 10 CFR 50 Appendix B, and meets the requirements of Regulatory Guides and Industry Standards referenced in Appendix C of this report. The Topical Quality Requirements and attached Policy Statement, together with the Quality Procedures and Quality Instructions document the Program and the FPL policy with regard to Quality Assurance. This Program shall be instituted for each plant site in a schedule consistent with accomplishing the required activity and shall be carried out throughout the life of FPL nuclear plants.

The requirements of the FPL Quality Assurance Program shall only apply to nuclear safety related structures, systems, and components as identified in the Safety Analysis Report for each nuclear unit. Additionally, the requirements of the FPL Quality Assurance Program shall apply to all FPL, contractor, or consultant organizations performing activities affecting the quality of safety related structures, systems, and components of FPL nuclear power plants. Portions of the FPL Quality Assurance Program requirements are also applicable to Quality Related items and services. Those portions applicable to specific Quality Related items or services shall be delineated in appropriate instructions.

Documented procedures shall require and define indoctrination and training of personnel performing activities affecting quality as necessary to assure that suitable proficiency is achieved and maintained.

Periodic program reviews of the status and adequacy of the FPL Quality Assurance Program shall be accomplished by the independent audit team described in Section 2.2.6.d and by Quality Assurance Department audits.

Management of organizations outside Florida Power & Light Company participating in the Program shall be required to regularly review the status and adequacy of that part of the FPL Quality Assurance Program which they are executing. The FPL Quality Assurance Department shall review and concur in the Quality Assurance Program of contractors.

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# 2.2 IMPLEMENTATION

### 2.2.1 Goals and Objectives

As stated in the Policy Statement of the President of the Nuclear Division, the goal of the FPL Quality Assurance Program is to maintain quality levels in an effective and efficient manner, and to assure the high degree of functional integrity and reliability of nuclear safety related structures, systems, and components. To meet this goal, the following objectives of the FPL Quality Assurance Program have been defined:

- a. Define through documented procedures and instructions the quality activities that apply to the design, fabrication, procurement, modification, testing, operation, refueling, maintenance, and repair of nuclear power plants;
- b. Establish, assign, and document the responsibilities for those activities affecting quality of safety related structures, systems, and components;
- c. Establish confidence that the design, fabrication, modification, and operation of nuclear power generation facilities are performed in a manner consistent with FPL policies by assuring activities affecting quality are performed by responsible personnel;
- d. Apprise management of unresolved problems and trends which could have a significant effect on nuclear power plant safety; and
- e. Prevent schedule delays and high cost due to poor quality.

# 2.2.2 Program Documentation

The Topical Quality Assurance Report, which defines the policy, goals, and objectives, responsibilities and interfaces regarding the Quality Assurance Program, shall be contained in the FPL Quality Assurance Manual, and used as guidance for the development of corporate-level Quality Procedures Quality Instructions. which are also contained in the Quality Assurance Manual. Revisions to the Topical Quality Assurance Report will be made, as needed, to reflect current FPL program requirements

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and descriptions of activities. These revisions shall be made in accordance with a Quality Procedure a Quality Instruction. If a program reflects a reduction of the commitments from the baseline documents contained in Appendix C, the revision shall be submitted to and approved by the NRC prior to implementation.

In all other cases, amendments to the Topical Quality Assurance Report will be submitted to the NRC to reflect implemented program revisions on an annual or more frequent basis.

Quality Procedures—shall be written by the department with major responsibilities for an activity, or by the Quality Assurance Department when requested.—These procedures shall be reviewed by all the departments with responsibility for some portion of that procedure, and shall be approved by the major implementing departments with - co-approval by the Vice President-Nuclear Assurance.—A listing of corporate level Quality Procedures—is contained in Appendix E.

Each Quality Procedure shall be written to further address criteria contained in the Topical Quality Requirements and to further define the FPL Quality Assurance policies, plans, and program where action is required by more than one department.

Each department head shall have the responsibility for implementation of the Quality Assurance Program, which includes compliance with procedure requirements applicable to the department. In addition, each department head shall be responsible for the preparation, approval, and distribution of Quality Instructions, operating procedures, testing procedures, or other instructions where further guidance is necessary for implementation of the Quality Assurance Program requirements within the department. Quality Instructions shall be reviewed by the Quality Assurance Department at each revision.

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# QUALITY ASSURANCE PROGRAM

### 2.2.3 Structures, Systems, and Components

The requirements of the FPL Quality Assurance Program shall apply to nuclear safety related structures, systems, and components, as defined in the SAR. Safety related structures, systems, and components are listed as those necessary to assure the integrity of the reactor coolant boundary, the capability to shutdown the reactor and maintain it in a safe shutdown condition, or the capability to prevent or mitigate the consequences of accidents which could result in off-site exposures comparable to the guideline exposures of 10 CFR 100.

Control over activities affecting the quality of safety related structures, systems, and components shall be to the extent consistent with their importance to safety. Such control shall include use of appropriate equipment, establishment of suitable environmental conditions, and assurance that all prerequisites for a given activity have been satisfied. The Program shall provide for controls over special processes and skills necessary to attain the required quality, and the need for verification of quality by inspection and test.

Advance-planning-is-required, for-the control-of-management-and-technical-interfaces between FPL- and contractors, during-the-phase-out-of-design-and-construction and during preoperational-testing-and-plant turnover.—This-is-achieved-through-periodic-meetings-ofconcerned-organizations-and-the-development-of-procedures-which-define-responsibilities and interfaces, and control-the-testing and turnover of-plant systems to FPL.

### 2.2.4 Participating Organizations

The FPL organizations with responsibilities for activities affecting quality of nuclear safety related structures, systems, and components are identified in TQR 1.0, which also briefly describes their assigned responsibilities.

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Florida Power & Light Company may delegate activities to contractor organizations and equipment vendors. Delegated activities are subject to the external organization's FPL approved Quality Assurance Program or the FPL Quality Assurance Program, or some FPL approved combination thereof.

However, FPL shall retain overall responsibilities for the Quality Assurance Program. Procurement documents shall define the scope of delegated activities, as well as Quality Assurance Program requirements that shall govern these activities.

The Quality Assurance Department shall review and approve the Quality Assurance Program governing contracted activities prior to award of contract except for activities for which the output is of a conceptual and/or prototype nature. In all cases, final approval shall occur at a point in the process to ensure that the output complies with the requirements of the FPL approved Quality Assurance Program. The object of this review shall be to verify that the program is in compliance with the applicable requirements of Appendix B, 10CFR50, and ANSI N45.2. Audits shall be conducted periodically to verify the acceptable implementation of the contractor's FPL approved Quality Assurance Program governing delegated activities. The Quality Assurance Department is responsible for conducting these audits. The initial review and periodic audits shall be performed by qualified Quality Assurance Department personnel, and as appropriate, by technical specialists from other FPL departments and contractor organizations.

### 2.2.5 Indoctrination and Training

A program shall be established and maintained for quality assurance indoctrination, and for training which assures that the required level of personnel competence and skill is achieved and maintained in the performance of activities affecting quality. Quality. **Procedures Instructions** shall delineate the requirements for an indoctrination program to assure that personnel responsible for performing activities affecting quality are instructed in the purpose, scope, and implementation of the manuals, instructions, and procedures and that compliance to these documents is a mandatory requirement.

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Quality Procedures Instructions shall also require the head of each department (including the Quality Assurance Department) to be responsible for a training plan which assures that personnel performing activities affecting quality are trained in the principles and techniques of the activity being performed. This training shall maintain the proficiency of personnel in the skills necessary through retraining, requalification or reexamination, as appropriate. This training shall be conducted to reflect significant procedure changes, or plant modifications which significantly affect the operation of the department. When personnel are assigned to perform their functions under the direction of personnel from other than their home department, the department head of the organization providing direction is responsible for the indoctrinaton and training of personnel who perform activities under their direction. Quality Procedures Instructions shall specify the requirements for documenting indoctrination and training sessions, including a course description, attendance, location, and date. Records shall contain sufficient information to identify persons in attendance with the corresponding lesson plans.

# 2.2.6 Management Participation

In addition to the involvement of department heads in implementing the Quality Assurance Program within their departments and the involvement of the Vice President Nuclear Assurance and the Quality Manager - Juno Beach in the development, coordination, and review of the Program, the Company Nuclear Review Board (CNRB) shall be apprised of the status and adequacy of the Quality Assurance Program on a periodic basis. The following actions shall be instituted to assure that the CNRB remains informed and meets its Program responsibilities:

- a. The CNRB shall review a summary of the results of management level Quality Assurance audits of FPL Departments.
- b. The Quality Assurance Department shall circulate monthly reports of activities to members of the CNRB and affected department heads. The monthly reports may include such items as the status of audits, a summary of audit findings, the status of development projects, and descriptions of policy matters or problems requiring management attention.

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- c. The CNRB shall review the status of the Quality Assurance Program on a semiannual basis. The review will include assessment of the Program goals, objectives, and accomplishments.
- d. Periodic audits of the Quality Assurance Department and Program shall be conducted by an independent audit group under the direction of the Vice President Nuclear Assurance. This audit group shall employ FPL audit procedures and shall distribute the audit report to the Vice President Nuclear Assurance, and to the CNRB for review of findings and corrective action. Auditor certifications of independent audit teams will be retained by the Quality Assurance Department.

The programs of contractor organizations that perform activities affecting quality shall be reviewed by Quality Assurance to assure that their management regularly reviews the status and adequacy of that part of the FPL Quality Assurance Program which they are executing.

## 2.3 **RESPONSIBILITIES**

- **Each direct report of the President, Nuclear Division and Department** Heads of organizations supporting the Nuclear Division shall be responsible for:
  - 1. Reviewing changes to the FPL QA Manual and determining the need for departmental instructions, revising existing instructions, and approving instructions;
  - 2. Controlling distribution and coordinating the use of the instructions with affected organizations and functions;
  - 3. Submitting Quality Assurance Indoctrination (QAI) lesson plans to the Vice President Nuclear Assurance for approval to conduct their own QAI.

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2.3.2 The Vice President Nuclear Assurance has overall responsibility for:
1. Development, coordination, and periodic reviews of the status and adequacy of the FPL Quality Assurance Program;

2. Establishing, conducting, reviewing and authorizing the implementation of FPL's requirements for QAI;

3. Coordinating revisions to the Topical Quality Assurance Report.

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#### 3.1 <u>GENERAL REOUIREMENTS</u>

A Quality Assurance Program shall be established for design-related activities. . -This The design control program shall ensure that the design is defined, controlled and verified; that applicable design inputs are specified and correctly translated into design output documents; that design interfaces are identified and controlled; that design adequacy is verified by persons other than those who designed the item; and that design changes, including field changes, are governed by control measures commensurate with those applied to the original design.

Design records shall be developed to provide evidence that the design process and design verification were performed in accordance with the requirements of FPL's Quality Assurance Program. The design organization (Nuclear Engineering or designated contractor organization) shall be responsible for the content of these records.

Design records shall include design output documents and the important steps in the design effort. The intent of this documentation is to allow a technically qualified person to understand how the design was developed, and to allow that person to verify the design based on the design documentation and engineering data sources referenced therein.

Documents and databases designating safety related and quality related items and any revisions thereto shall be controlled in accordance with the FPL QA Program requirements.

#### 3.2 IMPLEMENTATION

The controlling document for the identification of safety related items shall be the FSAR. Where the FSAR is not definitive for a specified plant, Nuclear Engineering shall develop and maintain documents/databases identifying those items which are safety related (e.g., plant equipment database, Instrument List, Valve List, Line List, drawings, etc). These documents/databases shall clearly identify the boundaries of safety related

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systems and may take the form of identifying boundaries on engineering drawings. For quality related items, Nuclear Engineering shall specify explicitly those aspects of design, manufacture, procurement, installation, and testing that shall be subject to the FPL QA Program requirements, as appropriate, in the design output documents (e.g., Plant Change/Modification package).

The design organization's Quality Assurance Program for design control shall be approved by the FPL Quality Assurance Department prior to the release of approved design output by the design organization. The design organization is the organization responsible for approval of design output. Quality Procedures and Quality Instructions shall be developed to delineate design control requirements governing design-related activities performed by Nuclear Engineering and for delegating activities to contractor organizations.

Design data approved by the design organization shall be transmitted in design output documents such as specifications, drawings, and other documents defining technical requirements or in correspondence which may reference these documents. Transmittals shall identify the status of design information or documents provided, and where necessary, identify incomplete items which require further evaluation, review, or approval. A standard PC/M and numbering system shall be established and used at each plant to ensure that all PC/Ms are handled in a uniform manner and properly documented. Nuclear Engineering shall forward the approved PC/M to the applicable Plant Vice President. Internal plant coordination and review of design control documents shall be controlled by approved instructions.

#### 3.2.1 Design Process

The design organization shall specify and document its design activities to the level of detail necessary to permit the design to be developed in a correct manner and to permit verification that design output documents satisfy design input requirements.

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Design methods, materials, parts, equipment and processes, including those associated with commercial grade items that are essential to the function of the structure, system or component item shall be selected, reviewed and approved for suitability of application by the design organization.

Design inputs shall be identified, documented, reviewed and approved by the design organization. They shall be specified to the level of detail necessary to permit the design activity to be carried out in a correct manner, and to provide a consistent basis for making design-related, decisions, performing design verification and evaluating design changes. Changes to approved design inputs, including the reason for the changes, shall be approved, documented and controlled by the design organization.

The design organization shall identify aspects of manufacture, construction, inspection and testing critical to achieving the function of the structure, system or component item. Quality standards and quality requirements shall be specified on design output documents. Changes from approved quality-related requirements specified in design output, including the reason for the changes, shall be approved, documented and controlled by the design organization.

Design analyses shall be controlled and documented. Approved design output documents and approved changes thereto shall be relatable to the design input by documentation in sufficient detail to permit verification. The design organization shall establish procedures to review industry design experience. As appropriate, this experience shall be made available to cognizant design personnel.

#### 3.2.2 Design Change Control

Changes to approved design output documents, including field changes, shall be justified, subjected to control measures commensurate with those applied to the original design, and shall be reviewed and approved by the same design organization that approved the original design unless other organizations are specifically designated.

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Where a significant design change is necessary because of an incorrect design, Nuclear Engineering shall determine the cause of the incorrect design. As necessary, design and verification procedures shall be reviewed and modified to correct the cause of the incorrect design.

During the operations phase, dDesign changes shall also be reviewed by operating plant management and Quality-Control. The intent of this review is to ensure that implementation of the design change is coordinated with any necessary changes to operating procedures and practices, and required Nuclear Assurance Quality Control Surveillance activities, such as inspections and surveillances.

In accordance with plant technical specification requirements, nuclear safety-related design changes are reviewed by the Plant Nuclear Safety Committee (PNSC) or Facility Review Group (FRG) and the Company Nuclear Review Board (CNRB).

#### 3.2.3 Design Interface Control

The design-organization shall be responsible for identification, control, resolution and documentation of design-interface requirements. Procedures Quality Instructions shall establish interface controls between participating organizations and between the various technical disciplines within the design organization. These Quality Instructions procedures shall include the assignment of responsibility, and be in sufficient detail to cover the preparation, review, approval, release, distribution and revision of design output documents.

For interdisciplinary design, approval documentation of each involved discipline of the design organization shall appear on the design output document or on a separate document directly traceable to the design output. The design organization shall designate a discipline(s) responsible for resolution of the comments of participating organizations. The designated discipline(s) approval of a design output shall also document resolution of the comments of participating organizations.

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#### 3.2.4 Design Verification

Design control measures shall be established to independently verify the design inputs, design process, and that design inputs are correctly incorporated into design output. The design organization shall develop procedures instructions that govern design verification. These procedures instructions shall require that the design organization identify and document the verification method utilized and that the documentation clearly identify those individuals performing the design verification.

Design verification shall be performed by technically qualified individual(s) or group(s) other than those who performed the design. The original designers and verifiers may both be from the design organization. Design verification by the designer's immediate supervisor shall be limited to those instances where the supervisor is the only qualified individual available within the design organization. These instances are further restricted to designs where the supervisor did not specify a singular design approach, or did not restrict design methods or alternatives, or did not specify design inputs (unless the specified design inputs have already been independently verified). Justification for verification by the designer's immediate supervisor should be documented along with the extent of the supervisor's involvement in the design.

The design organization shall be responsible for determining the extent of design verification and methods to be employed. The methods may include one or more of the following: the performance of design reviews, the use of alternate calculations, or the performance of qualification tests. This shall apply to original design and to changes to approved design output.

Where reverification is not required for a design change, the bases shall be documented by the design organization. Cursory supervisory reviews and mathematical checks for calculation accuracy do not satisfy the independent design verification requirement. Design verification shall normally be completed prior to release of design output for procurement, manufacture or release by the design organization for use in design activities by a participating organization. Verification shall be conducted based on the status of

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design at the time of release of design documents. Where this timing cannot be met, verification may be deferred provided that the unverified portion of the design output, and all design output documents, structures, systems and components based on the unverified portion of design are identified and controlled. In all cases verification shall be completed prior to relying on any affected items to perform their design functions.

#### 3.2.5 Computer Programs/Software

Organizations utilizing computer programs/software as a method for design shall maintain instructions or procedures to effect the following:

- 1. That such programs/software are verified for their particular use using benchmark problems, alternate calculations, comparison with other code or experimental results, design review or similar methods,
- 2. That such programs/software have been qualified for their specific application sufficient to ensure valid results,
- 3. That such programs/software are provided with user instructions sufficient for a technically competent individual to follow,
- 4. That configuration controls are provided to assure that such programs/software changes or modifications are documented and controlled.

## 3.3 <u>RESPONSIBILITIES</u>

## 3.3.1 The Vice President Nuclear Engineering and Licensing is responsible for:

- 1) determining and documenting which items are nuclear safety related or quality related;
- 2) the review and coordination of design interfaces;
- 3) assuring that design documents are reviewed for possible design interfaces, that interface problems are resolved and that design criteria and design interface changes are reviewed by participating organizations prior to approval of design documents;

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- 4) preparing design documents, including performing the safety evaluation or screening to determine if the proposed design change involves an Unreviewed Safety Question or a change to the Technical Specifications;
- 5) performing design verification, including evaluation of the effects of proposed design changes on overall design adequacy (design integration);
- (6). providing Nuclear Engineering approval of design documents;
- 7) updating design documents and drawings according to applicable procedures;
- 8) coordinating the NRC interface for 10 CFR 50.59 reports.
- 3.3.2 The Site Vice President is responsible for:

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- 1) reviewing, tracking the status of, and maintaining a file on proposed . PC/Ms;
- 2) reviewing proposed PC/Ms for inclusion of appropriate quality criteria, standards, and hold points, including human factors considerations for design changes involving the Control Room or Remote Shutdown Panel;
- 3) reviewing completed PC/Ms, after implementation for compliance with governing procedures, including a review of all endorsements, sign-offs, completion of required acceptance testing/inspection, and any necessary changes to operating practices and procedures;
- 4) maintaining design documents as Quality Assurance records.
- 5) assuring that all plant design changes and drawing changes are coordinated through Nuclear Engineering;
- 6) determining whether or not a proposed design change affects nuclear safety;
- 7) approving or disapproving implementation of the proposed design change after receipt of a recommendation from the Plant Nuclear Safety Committee, (PNSC) or Facility Review Group (FRG);

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- 9) ensuring the Environmental Affairs Department is included in the proposed PC/M review if the design change may have an adverse impact on the environment;
- 10) reviewing design changes to ensure that the implementation of the design change is coordinated with any necessary changes to operating practices and procedures;
- 3.3.3 The Plant Nuclear Safety Committee (PNSC) or Facility Review Group (FRG) is responsible for:
  - 1) reviewing all proposed PC/Ms for plant systems or equipment related to nuclear safety;
  - 2) rendering a determination in writing (PNSC/FRG meeting minutes) as to whether or not the proposed design change constitutes an Unreviewed Safety Question.
- 3.3.4 The Vice President Nuclear Assurance is responsible for:
  - 1) reviewing PC/Ms for inclusion of appropriate quality criteria, standards, hold points, and Nuclear Assurance activities.
- 3.3.5 The Company Nuclear Review Board (CNRB) is responsible for:
  - 1) reviewing Safety Evaluations for design changes to verify that the design changes did not constitute an Unreviewed Safety Question. CNRB review of evaluations involving screening rather than Safety Evaluation is not mandatory;
  - 2) reviewing proposed design changes which involve an Unreviewed Safety Question or a change in Technical Specifications or License.

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#### 4.1 <u>GENERAL REOUIREMENTS</u>

Procurement of items and services shall be performed in accordance with procedures and instructions which assure that applicable regulatory requirements, design bases, code requirements, and other requirements necessary to assure quality shall be included or invoked by reference in the procurement document. These procedures and instructions shall delineate the sequence of actions to be accomplished in the preparation, review, approval, and control of procurement documents. Changes to procurement documents shall be subjected to the same degree of control as utilized in the preparation of the original documents.

#### 4.2 IMPLEMENTATION

#### 4.2.1 Procurement Document Provisions

Quality Procedures and Quality Instructions shall identify the responsibilities and actions required of the organizations originating, reviewing, approving, and controlling procurement documents. These procedures instructions shall require the procurement documents to specify:

- a. The scope of work to be performed.
- b. Technical requirements (by specifying or referencing) which shall include the applicable components and materials identification requirements, drawings, specifications, procedures, instructions, codes, and regulations and provide for identification of applicable test, inspection and acceptance requirements, or special process instructions.
- c. Quality Assurance Program requirements to be imposed on contractors which shall include the applicable portions of 10 CFR 50, Appendix B.
- d. Right of access which provides, as appropriate, for access to contractor facilities and records for inspection or audit by FPL or its designated representative, and to access for events such as witness and hold points.



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e. The documentation required to be prepared, maintained, and/or submitted to FPL or its representative for review, approval, or historical record. The time of submittal of this documentation and the retention and disposition of Quality Assurance Records which will not be delivered to FPL shall be prescribed.

Consideration shall be given to the need for special requirements in the preparation and review of procurement documents. Procedures and instructions shall be prepared and implemented for special on-site handling or storage requirements. The receiving department shall be-responsible-for ensure on-site implementation of the special handling, shipping, and storage requirements for items received and controlled by their organization.

Special handling, preservation, storage, cleaning, packaging, and shipping requirements shall be specified, as appropriate, in the design documents or purchase orders. The requirements established in the design documents or purchase orders shall be consistent with industry accepted standards, the importance of equipment or material to nuclear safety, and the material or equipment's sensitivity to damage. The preparation of these design documents or purchase orders may be delegated by FPL to other organizations.

#### 4.2.2 Procurement Document Review

Procurement documents shall be reviewed for correctness, and inspectability and controllability of quality requirements in accordance with Quality Procedures and Quality Instructions to assure that the appropriate provisions of Section 4.2.1 are included. This review shall be documented and performed by designated personnel who have been trained and qualified in quality assurance practices and concepts. These reviewers shall have access to pertinent information and have an adequate understanding of the quality and technical requirements and intent of the procurement documents.

Spare or replacement parts for safety related structures, systems, and components are subject to technical or quality requirements equivalent to, or better than, those used for the original equipment.

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Changes to procurement documents, whether initiated by FPL or their representative, are subjected to the same degree of control as that utilized in the preparation of the original document.

#### 4.2.3 Selection of Procurement Sources

The Nuclear Materials Management Department shall verify It shall be verifed that the procurement document has been reviewed and approved, and that the supplier has been approved prior to issuing the purchase order for safety related materials or services. Verbal purshase orders shall be made in accordance with TQAR Appendix C exceptions to ANSI N45.2.13. Supplier approval is not necessary if the important characteristics of the item can be verified by inspection or test.

The overall procurement requirements, including those related to planning, bid evaluation, and review and concurrence of suppliers Quality Assurance programs, are described in Quality Procedures and Quality Instructions.

#### ...4.3 ... <u>RESPONSIBILITIES</u>

- 4.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division originating a procurement requisition shall be responsible for:
  - 1) clearly describing the technical and quality considerations for the procurement of items or services;
  - 2) specifying any special requirements;
  - 3) specifying documentation required from the supplier;
  - 4) specifying special handling, preservation, storage, cleaning, packaging, and shipping requirements, as appropriate.

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4.3.2	The Vice P	resident Nuclear Engineering and Licensing is re	esponsible for :	
	1) perform and qu items	ming technical evaluations to verify and/or estab 1ality requirements for permanent and temporary and services:	lish technical power plant	
	2) review orderin	ing procurement documents and changes thereto ng requirements are technically correct and com	to assure that plete for items	
, 2 -	and se 3) evaluat what is	rvices as specified in 4.2.1, including quality re ting the interchangeability of items that are not is s currently installed.	equirements; dentical to	
4.3.3	The Vice P	resident Nuclear Assurance is responsible for:		
	1) assistin	g in the resolution of quality requirements;		
<ul> <li>approving suppliers for safety related procurement and comm</li> <li>grade item procurement (when emplies he)</li> </ul>				
	3) identify facility relied	ying surveillance witness and/or hold points at the for safety related procurement when supplier ( upon and programmatic deficiencies dictate:	he supplier's )A program is	
	4) perform	ning supplier surveillance.		
4.3.4	'The Plant Vice President and Vice President Nuclear Engineering and			
	Licensing, corresponsible	ognizant for the issuance of a procurement docur for:	ment is	
	1) incorpo procure	prating requisition technical and quality requirement documents;	ents into the	
	2) notifyin supplier Assurat	ng Nuclear Assurance of discrepancies and/or cha r activities which may conflict with the work sco	anges in ope of Nuclear	
	3) reviewin accorda and res	ng each procurement document to ensure that it in nce with Nuclear Assurance approved supplier trictions (when applicable) and the originating procession.	s correct, in work scope rocurement	

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4) referencing and attaching appropriate Quality Assurance Program requirements, as referenced on respective procurement requisitions, requests for bid proposals, purchase orders and contracts;

5) verifying that the procurement document has been reviewed and approved and issuing procurement documents to suppliers, as approved by FPL Nuclear Assurance when supplier QA programs are required;

6) maintaining traceability of procurement document records until transmitted to an approved storage facility.



#### INSTRUCTIONS, PROCEDURES AND DRAWINGS QP DELETION PROJECT

#### 5.1 GENERAL REOUIREMENTS

Activities affecting quality of nuclear safety-related structures, systems, and components shall be prescribed by documented instructions, procedures, or drawings of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings. These documents shall include appropriate quantitative criteria such as dimensions, tolerances, and operating limits, and qualitative criteria such as comparative workmanship samples, to assure that the quality assurance activity has been satisfactorily accomplished.

#### 5.2 IMPLEMENTATION

#### 5.2.1 Quality Assurance Program Documents

The FPL Quality Assurance Manual described in TQR 2.0 contains corporate Quality Procedures the Topical Quality Assurance Report which complyies with the criteria of 10 CFR 50, Appendix B. Quality-Procedures and department level Quality Instructions provide direction for activities affecting quality. The Quality Assurance Department reviews and comments on Quality Instructions written by other departments. Comments concerning compliance with corporate Quality Assurance commitments and regulatory requirements are resolved prior to issuance. The Quality Assurance Department receives controlled copies of Quality Instructions issued by other departments.

#### 5.2.2 Procedures and Instructions

Instructions and procedures for activities affecting quality shall be prepared, reviewed, and approved in accordance with written Quality Procedures or Quality Instructions.

For plant operations, on-site plant procedures shall be prepared, reviewed, and approved in accordance with written instructions which includes a review for concurrence by Quality Assurance or Quality Control personnel and provisions for temporary changes and temporary procedures. These plant procedures include operating procedures, off-normal and emergency procedures, test procedures, and calibration

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procedures. Also included are maintenance and repair procedures for subcontracted maintenance and repair activities which are outside the normal scope of plant craft capability. Temporary procedures may be issued during testing, refueling, maintenance, modifications, unusual situations not within the scope of normal procedures, and for short periods when the plant, system or component is performing in a manner not covered by existing detailed procedures or has been modified in such a manner that portions of existing procedures do not apply.

For backfit activities, cContractors shall be required to have Quality Assurance Programs which contain written instructions for preparation, review, and approval of procedures, instructions, and drawings affecting quality. In addition, Contractor's site procedures and Quality Control inspection procedures shall be approved by an FPL-Site Construction Services Manager the Plant General Manager, or designee, following reviews by Quality Assurance or Quality Control personnel to assure compliance with Corporate commitment and regulatory requirements.

During the design, modification, and procurement phases, the Architect/Engineer or other contractors may be delegated responsibility for maintaining, issuing and verifying the implementation of appropriate program documents. In this case, Quality Assurance or Quality Control -Department audit and/or Quality Control surveillance activities shall assure that such measures are established and implemented. Contractor programs shall clearly delineate the actions to be accomplished in the preparation, review and control of instructions, procedures and drawings, and the methods for complying with the appropriate criteria of 10 CFR 50, Appendix B. A-plant-change-or-modification of-a magnitude requiring the assignment of a-Site Construction Services Manager shall be subject to the Quality Assurance Program as discussed above.

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#### 5.2.3 Drawings

The design organization is responsible for review and approval of drawings. For delegated design activities, the Nuclear Engineering and Licensing Department may approve changes to drawings. The technical control of drawings, i.e., review and approval of the drawing and all changes thereto shall be governed by procedures. A means shall be developed and updated as required to identify approved drawings and revisions thereto. A Master Drawing List is the normal means used for this.

#### 5.2.4 Acceptance Criteria

Quality Procedures and Quality Instructions shall require that quality-related instructions, procedures, and drawings affecting quality include adequate quantitative and qualitative acceptance criteria, as appropriate, for determining satisfactory work performance and quality compliance. These acceptance criteria requirements apply to important activities such as design, operations, test control, inspection, and plant modifications.

#### 5.3 **Responsibilities**

- 5.3.1 Each direct report to the President Nuclear Division and Department Heads of organizations supporting the Nuclear Division is responsible for:
  - a. Establishment of a documented system for the preparation, review, approval and revision of procedures. This system shall comply with regulatory requirements, the applicable Plant Technical Specifications and Topical Quality Requirements.
- 5.3.2 The Vice President Nuclear Assurance is responsible for:
  - a. Review and concurrence of procedures affecting quality in accordance with paragraph 5.2.

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#### 6.1 **GENERAL REQUIREMENTS**

The distribution of documents such as instructions, procedures, drawings, and software which provide guidance, specifications, or requirements affecting the quality of nuclear safety-related structures, systems, and components shall be controlled. These documents shall be prepared, reviewed for adequacy, and approved for release by authorized personnel in the affected organization. These documents shall be distributed to locations where the activity is performed.

Changes to controlled documents shall be so identified and shall be reviewed and approved by the same organization that performed the original review and approval unless otherwise specified in the implementing procedures. In addition, procedures shall preclude the possibility of use of outdated documents.

#### 6.2 IMPLEMENTATION

#### 6.2.1 Responsibility

Quality Procedures Instructions shall delineate the control measures for controlled documents-including direction for the review for adequacy, approval by authorized personnel, distribution of controlled documents and verification that changes are received, that provide for:

- 1. Identification of individuals or organizations responsible for preparing, reviewing, approving, and issuing documents and revisions thereto.
- 2. Identifying the proper documents to be used in performing the activity.
- 3. Coordination and control of interface documents.
- 4. Ascertaining that proper documents are being used.
  - 5. Establishing current and updated distribution lists.

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# **DOCUMENT CONTROL**

These control measures shall apply to documents affecting the quality of nuclear safetyrelated structures, systems, and components such as:

- design specifications; a.
- design, manufacturing, construction, and installation drawings; b.
- quality program manuals, procedures, and instructions; c.
- d. inspection, manufacturing, and test procedures and instructions;
- e. , plant operating and maintenance procedures;
- f. plant Safety Analysis Reports and related design criteria documents.

The requirements for control of procurement documents are contained in TQR 4.0.

During all phases of the plant-life, it shall be the responsibility of each organization issuing and-using-controlled-documents-to-use-document-control-procedures-shalldocument-the-responsibility-for-review, approval, maintenance and distribution-ofdocuments-including-assuring-revisions-are-initiated-to-interfacing-documents-within-theirorganization.

During the design and construction phase and for operating plant changes under their cognizance, the Architect/Engineer, Nuclear-Steam-Supply-System-vendor, and other contractors-shall-be-responsible-for-assuring-that-all-revisions required-as-a-result of FPL. comments,-nonconformances, or -engineering-work-are-incorporated-into-revised documents. MOVED TO SECTION 6.3.

Distribution of Controlled Documents 6.2.2

Quality Procedures shall specify that controlled documents and revisions be distributed to locations where the activity is performed.
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#### 5.2.3 Drawing Control

#### 6.2.2

FPL assumes control of the drawings and Master Drawing List after initial operation of the facility or delegates this activity to a qualified contractor. Nuclear Engineering shall require that participating design organizations update the drawings and Master Drawing List to reflect the as-built conditions of the facility prior to FPL's acceptance of these documents.

Maintenance, distribution and control of the drawings and the Master Drawing List by FPL during the operation phase shall be assigned to a drawing custodian. Revision to drawings shall be approved prior to release by the drawing custodian. Approval shall be by Nuclear Engineering, or a designated design organization.

#### 6.2.3

#### 6.2.2

During the operation phase a system shall be established to provide ready access and availability of drawings to engineering and operations personnel; to identify drawings affected by approved plant design changes; and to update drawings and the Master Drawing List to reflect implemented design changes.

#### 6.2.4 Design Documents Other Than Drawings

6.2.3

Ascertaining that proper design documents are accessible and are being used may shall be accomplished by periodic issuance of master document lists showing the latest applicable revision, or by a document receipting system.

#### 6.2.5 Instruction & Procedure Control

Participating organizations shall be responsible for development, maintenance and control of those documents-identified in paragraph 6.2.1 issued by them as controlled documents. Each organization shall be responsible for the adequacy of their procedures. MOVED TO SECTION 6.3.

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6.2.6 Obsolete Documents

- Controls-established by Quality Procedures and Quality Instructions shall assure that outdated copies of controlled documents are not inadvertently used. Moved to Section 6.2.1.

#### 6.3 **RESPONSIBILITIES:**

- 6.3.1 Direct reports to the President, Nuclear Division, and Department Heads
- of organizations supporting the Nuclear Division shall be responsible for:
  - a. the development, maintenance and control of those documents identified in Section 6.2 issued by them as controlled documents.
  - b. the adequacy of their instructions, including the instructions for control of

the documents and changes thereto to preclude the possibility of use of outdated or inappropriate documents.

- 6.3.2 Each recipient of a controlled document is responsible for ensuring that the appropriate latest revision is being used.
- 6.3.3 The-Director Nuclear Engineering The Vice President, Nuclear Engineering & Licensing, is responsible for assuring that the Architect-Engineer, Nuclear Steam Supply System vendor, and other contractors, as a minimum,
  - a. provide for the development, control and distribution of drawings, specifications and procedures; and the development and periodic distribution of a master drawing list for each project.
  - b. provide for all revisions required as a result of FPL comments, nonconformances, or engineering work are incorporated into revised documents.

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6.3.4 The Director-Nuclear-Construction-Services The Site Vice President is responsible for establishing a document distribution and control system to assure that the latest appropriate revisions of documents are used for construction and installation at each project site.

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#### CONTROL OF PURCHASED ITEMS & SERVICES QP DELETION PROJECT

### 7.1 GENERAL REQUIREMENTS

Measures shall be established to assure that <del>cafety related</del> items or services purchased by or for FPL conform to the requirements of the procurement document. These measures shall include documented evidence of source selection, verification activities and examination of items or services to assure compliance with the procurement document. The effectiveness of the control of quality by contractors and subcontractors shall be assessed at intervals consistent with the importance, complexity, and quantity of the product or service.

#### 7.2 IMPLEMENTATION

#### .7.2.1 Initial Evaluation of Suppliers

Procurement source evaluation and selection measures shall be specified in-Quality-Procedures and Quality Instructions which shall identify the responsibility of qualified individuals for determining supplier capability. The evaluation may require integrated action involving Quality Assurance and one or more organizations (e.g., -Nuclear Engineering, Nuclear Construction Services, or Nuclear Materials Management) based upon the item or service being procured. This evaluation is to ensure that the FPL contractors comply with the applicable portions of 10 CFR 50, Appendix B. Documented evidence of the evaluation, and the acceptance of the contractor's quality program and procedures shall be retained in the Quality Assurance Department files. The determination of supplier approval shall be based on such factors as prior performance, historical quality performance data, source surveys or audits, and evaluation of the supplier's Quality Assurance Program. The basis shall be consistent with the importance, complexity, and quality required for the items or services involved.

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#### 7.2.2 Verification Activities

Quality Procedures Instructions shall define the requirements for verification activities such as surveillance, inspection, or audit to assure conformance of procured items and services to identified requirements. These verification activities shall be performed in accordance with written procedures, procurement documents and their references, which specify the documentation required and the characteristic or process to be witnessed, inspected, verified, or accepted. FPL verification activities shall be accomplished by qualified personnel to verify that the supplier complies with quality requirements, and depending on the importance/complexity, shall be performed on those items where verification of procurement requirements cannot be determined upon receipt.

#### 7.2.3 Receiving Inspection

Quality Procedures and Quality Instructions shall delineate requirements and responsibilities for the performance of receiving inspection. This inspection shall verify that suppliers have fulfilled their contractual obligation and that the procured items meet the appropriate quality requirements. Receipt inspections shall be planned. The receipt inspection plans shall identify the characteristics to be verified and the documentation to be reviewed at receipt inspection. Receiving inspection shall include, as appropriate:

- a. Measures for verifying that the shipment is complete, properly identified, undamaged, and corresponds with the purchase order documentation;
- b. Measures for inspection of the item and review of supporting documentation (e.g., mill test reports, NDE reports) as required by the purchase documents;
- c. Measures for disposition of items to inspection instructions;
- d. Measures for identifying and controlling items including identification of inspection status prior to release from the receiving inspection area;
- e. Measures to ascertain that inspection records or Certificates of Conformance are available prior to release;.

f. Measures verifying completion of Commercial Grade Item dedication requirements.

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#### CONTROL OF PURCHASED ITEMS & SERVICES QP DELETION PROJECT

#### 7.2.4 Supplier Furnished Records

Records required to be furnished by the supplier shall be specified in the procurement document. Certifications or documentation verifying conformance provided by the supplier shall identify the specific procurement requirements met (either by reference to the purchase order or by referenced requirements therein). Such certification shall identify any procurement requirements which have not been met and provide a description of those nonconformances dispositioned "accept as is" or "repair".

#### 7.3 <u>RESPONSIBILITIES</u>

- 7.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division are responsible for:
  - 1) determining the methods of acceptance for services requested by them;
  - 2) the performance of the acceptance methods selected, when assigned to them.
- 7.3.2 The Vice President Nuclear Engineering and Licensing is responsible for:
  - 1) requesting that Nuclear Assurance perform a supplier evaluation;
  - 2) determining the methods of acceptance for items and services.
- 7.3.3 The Vice President Nuclear Assurance is responsible for:
  - 1) assuring that evaluations of suppliers are performed and the results documented in accordance with approved Quality Instructions;
  - 2) determining the methods of source verification;

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- 3) performing receipt inspections in accordance with approved Quality Instructions;
- 7.3.4 The Site Vice President is responsible for:
  - 1) requesting that Nuclear Assurance perform a supplier evaluation;
  - 2) cexamining items for shipping damage upon receipt;
  - 3) performing receipt inspection in accordance with approved Quality Instructions;

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IDENTIFICATION AND CONTROL OF MATERIALS, PARTS AND COMPONENTS QP DELETION PROJECT

#### 8.1 GENERAL REOUIREMENTS

Materials, parts, and components, including partially fabricated assemblies, shall be identified and controlled as required throughout fabrication, receipt, handling, storage, installation, and use of the item. The identification of the item shall be maintained by heat number, part number, serial number, FPL M&S number, or other suitable means, and shall be physically marked on the item or on records traceable to the item. The object of these controls shall be to prevent the use of **non-inspected**, incorrect or defective materials, parts, and components. (The FPL Material and Supplies -- M&S number is a number given to each unique type of item in inventory to distinguish it from each other type of item in inventory).

#### 8.2 IMPLEMENTATION

Quality-Procedures-and Quality Instructions shall establish the responsibilities and requirements for the identification, and control of materials, parts and components. The procedures and instructions used by all organizations shall assure that identification and control is maintained throughout fabrication, receipt, handling, storage, installation and use of items. This shall include welding material traceability to the point of consumption. Provisions include:

- a. Physical identification shall be used to the maximum extent possible.
  When physical identification is impractical or insufficient, items shall be physically segregated and identified by batch, lots, etc.
- **b.** When items are subdivided, their identification shall be maintained by transferring the identification to each of the subdivided parts or their container.
- c. Post-installation identification of items that cannot feasibly be physically marked shall be traceable by record verification.
- d. Items requiring identification, but whose identification was lost during storage, shall be segregated and documented as nonconforming and dispositioned in accordance with established procedures. Provisions-include:

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ae. Requirements for traceability to appropriate documentation, such as: procurement documents, manufacturing documents, drawings, specifications, inspection and test records, nonconformance or deficiency reports or other Quality Assurance Records, in sufficient detail to preclude any possibility of doubt or confusion concerning the traceability of an item to the documentation, or the documentation of the item.

bf. Controls to assure that the correct identification of an item is verified and • documented prior to fabrication, receipt, handling, storage, installation and use.

- eg. Requirements which assure that the method or location of markings are not detrimental to, and do not affect the function or quality of an item; are clear, unambiguous and indelible; are in plain unobstructed view; do not provide conflicts with other requirements; are not obliterated by any surface treatment unless other means of identification are substituted; withstand normal shipping, handling and environmental effects and are able to be retained.
- dh. Establishment of identification requirements by specifications, drawings, procurement documents, instructions or procedures during initial planning.
- i. Requirements to ensure that dedicated Commercial Grade Items are identifiable to the specific component or equipment for which they are dedicated.

FPL may delegate any portion of the implementation of the identification and control program to the Architect/Engineer, Constructor, Nuclear Steam Supply System vendor or other contractors. If delegated, contracts shall require that the contractor establish an identification and control program which meets the requirements of this TQR.

#### 8.3 <u>RESPONSIBILITIES</u>

8.3.1 The Site Vice President has overall responsibility for:

a) Assuring that an identification and control system is developed and implemented for items to be utilized within the plant;

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- b) Receiving, controlling and ensuring the security of items;
- c) Segregating items until the required receipt inspection is performed;
- d) Assuring the placement of any necessary markings on the items as required by applicable procedures or as requested in accordance with applicable purchase orders, specifications or commercial grade dedication packages; and
- e) Incorporating applicable pre-installation and/or post-installation inspections, tests, and QC hold points (including Commercial Grade Item Dedication requirements) into applicable work control documents.
- 8.3.2 The Vice President Engineering and Licensing has overall responsibility for:
  - a) Determining and specifying end use applications for items.

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#### CONTROL OF SPECIAL PROCESSES QP DELETION PROJECT

#### 9.1 GENERAL REQUIREMENTS

Measures shall be established to assure that special processes such as welding, heat treating, and nondestructive examination items, are controlled and accomplished by qualified personnel using qualified procedures and equipment in accordance with applicable codes, standards, specifications, criteria, and other special requirements.

#### 9.2 IMPLEMENTATION

Nuclear Engineering or the delegated contractor organization, as appropriate, shall include eSpecial process requirements shall be included in their design outputs and changes thereto. Special processes-used during plant operations-shall be the responsibility of the plant-manager, who shall ensure that procedures are shall be developed, reviewed, approved and controlled, and that special process personnel and equipment are shall be qualified.

#### 9.2.1 Identification of Special Processes

Special processes are those processes which must be qualified and controlled where quality is highly dependent on close control of process variables or operator skills, and objective verification (inspection, examination or testing) of end quality is difficult.

As a further-clarification, 6Special processes identified as such by applicable codes and standards shall be controlled, qualified, and implemented in accordance with those codes and standards. Examples of special processes include (but are not limited to) welding, heat treating, and nondestructive examination. Others, (i.e., e.g., flushing, protective coating, plating applications and nuclear cleaning) should be reviewed to determine if they are special processes.

#### 9.2.2 Procedure Qualification and Control

Process control procedures written by FPL organizations or their contractors shall be used and qualified as required by applicable specifications, codes, or standards. معینی ۲۰ ۱۰ ۱۰ ۱۰

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Where FPL assigns work to outside contractors, the contractors shall make their procedures and personnel qualifications available for review to FPL prior to the start of work. The Architect/Engineer, Nuclear Steam Supply System vendor, or other organization designated by FPL shall be responsible for the evaluation and acceptance of on-site contractor special process procedures, and shall interface with the appropriate FPL department, as necessary, to resolve review comments with the contractor. The contractor shall also be responsible for the control and approval of sub-contractor procedures.

Special process procedures shall be:

- a. sufficiently detailed for a qualified person to perform the *technique* and achieve the desired results;
- b. reviewed and approved prior to use to ensure the procedure complies with applicable codes, standards, and specifications, and that specified materials, equipment, and techniques are suitable for the intended application;

c. qualified prior to or during initial use.

Special process procedures and revisions thereto which specify acceptance criteria (other than those identified in the ASME code) shall have the concurrence of the acceptance criteria by Nuclear Engineering prior to issuance and use.

#### 9.2.3 Personnel Qualification and Certification

 Procedures or instructions shall specify personnel qualification and certification requirements. Personnel responsible for the performance and verification of special processes shall be trained, tested, and certified as required by applicable specifications, codes and standards. Requirements for the period of certification, retesting, and • · · ·

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recertification of personnel shall also be specified. Contractors shall qualify personnel and maintain records of qualified personnel in accordance with applicable codes, standards, specifications, and contract or procurement document requirements.

#### 9.2.4 Control of Equipment

Equipment that must be of a specific type, range, or accuracy to provide conformance to specified requirements shall be controlled to ensure that it is qualified, maintained, and calibrated in accordance with those requirements.

#### 9.2.49.2.5 Special Process Records

The Services Manager is responsible for retention of records. The Plant General Manager is responsible for the review of records. Records shall provide objective evidence that special processes were performed in compliance with approved procedures by qualified personnel and equipment. Records shall also be maintained for verification activities when required by procedure, code or specification. Results of nondestructive examinations shall be recorded in accordance with applicable specifications, codes and standards. For contracted work, T these records shall be retained by the vendor or supplied to FPL as required by contract or purchase order 6. If records are to be retained by the vendor, the contract or purchase order shall specify the retention period and instructions for final disposition of such records.

For-backfit-activities, the Quality-Control organization-is-responsible-for-the-review-ofnondestructive examination documents for-acceptance. The Site-Construction Services Manager-is-responsible-for-assuring that documents for-special processes-utilized formodifications are properly-collected, reviewed, accepted and transmitted for-retention of records. \* •

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Nondestructive examination documents shall be reviewed for acceptance by an individual who is certified in the applicable method.

#### 9.3 <u>RESPONSIBILITIES</u>

- 9.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division involved in special process activities are responsible for:
  - 1) ensuring that special process procedures used by their department are reviewed, approved, controlled, and are qualified prior to or during initial use.
  - 2) ensuring that special process personnel in their department are qualified and certified.
  - 3) ensuring that records associated with special processes under their control are reviewed and maintained.
  - 4) performing special process inspections, examinations, and activities, when assigned to their department, as required by applicable codes, standards, criteria, or other special requirements identified.
  - 5) ensuring that work documents under their control contain adequate requirements for the identification and control of special processes.
  - 6) ensuring special process procedures and revisions which specify acceptance criteria (other than identified in the ASME code) have Nuclear Engineering concurrence of acceptance criteria prior to use.
  - 7) ensuring nondestructive examination documents are reviewed by an individual certified in the applicable method.
- 9.3.2 The Vice President Nuclear Engineering and Licensing is responsible for:
  - 1) determining (as requested) if a specific activity constitutes a special process;

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- 2) identifying applicable codes, standards, specifications, criteria, and other requirements related to special processes;
- 3) preparation, qualification, issuance, and control of Visual Test (VT) and Nondestructive Examination (NDE) procedures, instructions, and technique sheets for all ASME Section XI examination activities:
- direction, including technical direction to all personnel, of the 4) welding program to meet the requirements of applicable codes and standards. This shall include the development, maintenance, and control of a welding program;
- 5) review and approval of contractor welding programs.
- 9.3.3 The Site Vice President is responsible for:
  - welding activities performed at the site including issuance and control 1) of weld documentation packages, welding material and equipment.
  - maintaining a current report of qualified welders and weld operators 2) and assigning welder symbols.
  - 3) ensuring that the Authorized Nuclear Inspector/Authorized Nuclear Inservice Inspector (ANI/ANII) is permitted access to all parts of the plant site or supplier facilities while work on an item or system is being performed that concerns the welding fabrication, modification, repair, or replacement of the item or system; including inspections, examinations, and tests.

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#### **10.1** GENERAL REOUIREMENTS

A program for inspection shall be established and executed by or for FPL to verify conformance with the documented instructions, procedures and drawings for accomplishing an activity. Such Inspections shall be performed by individuals or groups other than those who performed the activity being inspected. Examinations, measurements and tests of materials or products processed shall be performed for each work operation, where necessary, to assure conformance to established requirements. If direct inspection of processed materials or products is impossible or disadvantageous, indirect control by surveillance or monitoring shall be provided. Mandatory inspection, witness, or hold points beyond which work shall not proceed without the consent of FPL or a designated representative shall be indicated in the appropriate documents.

#### **10.2** IMPLEMENTATION

10.2.1 Inspection Program Responsibilities

For plant operations, maintenance, or modification activities, a program for on-site inspection of activities affecting quality shall be established. by the Nuclear Assurance Department. Quality Control shall perform This program shall ensure the performance of inspections, surveillance and monitoring of plant activities including operations, maintenance or modifications as required by established plans, schedules and/or procedurally required inspection, witness or hold points. In all cases, the performing the inspection shall be independent of the group performing the work.

For these plant activities, the Nuclear Assurance Department may delegate the establishment and execution of this program to a contractor or other designated FPL representative, but shall retain ultimate responsibility for the program.

10.2.1 (Continued)

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For preoperational start-up and testing of plant modifications, Nuclear Division personnel may report functionally to the Site-Construction Services-Manager manager responsible for the start-up and testing and establish plans, schedules and procedurally required inspection, witness or hold points. In all cases, the personnel performing the inspection shall be independent of the group performing the work.

Protection & Control Systems personnel may perform inspections of equipment within their purview during operations. Inspections shall be performed in accordance with approved, written procedures by qualified personnel.

Quality Procedures and Quality Instructions shall be written which delineate the requirements and responsibilities for the performance of inspections.

#### 10.2.2 Inspection Plans and Schedules

Documented inspection plans may be either a separate document or an integral part of work instruction documents. The plans shall be based on design specifications, procurement documents, drawings, other specifications or previous experience, as appropriate. The frequency and timing of inspections Inspections shall be scheduled to according to the activities being conducted and to assure that sufficient time and resources are available, and to assure inspections are not inadvertently omitted or bypassed.

Inspection planning should include a review for the acceptability of sampling. If sampling is permitted, the sampling procedure shall be based on nationally recognized standard practices.

#### 10.2.3 Inspection Personnel

 Inspections shall be performed by individuals other than those who performed or directly supervised the activity being inspected. Inspection personnel shall be have current qualifications and certifications qualified and certified in accordance

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with appropriate codes, standards and/or company training programs. Qualifications and certifications shall be kept current. These qualifications and certifications shall be documented.

- b. Prior to performing inspections, inspection personnel shall have access to the drawings, procedures, specifications or other documented criteria necessary for performance of the inspection.
- 10.2.4 Inspection Procedures

a.Required inspection, surveillance or monitoring activities shall be performed and documented according to written, approved instructions or procedures.

- a. Inspection procedures, instructions or checklists shall contain the following:
  - o Identification of characteristics to be inspected;
  - Identification of the individual or groups responsible for performing the inspection;
  - o Acceptance criteria or reference to the acceptance criteria;
  - o A description of the method of inspection;
  - o Verification of completion and certification of inspection.
- b. Inspection records shall identify:
  - o Inspector or data recorder,
  - o Method or type of observations;
  - o Test or inspection results;
  - o Statement of acceptability;
  - o Date of observation;
  - o Deficiencies and nonconformances, and the action taken in connection with these deficient conditions, either by inclusion or by reference to other documents.
- c. Inspection procedures shall be reviewed by QC Nuclear Assurance personnel to determine the need for an independent inspection and the degree and method if such an inspection is required, and to assure the identification of inspection personnel and the method of documentation of inspection results.
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- d. Written approved instructions shall specify surveillance or monitoring of processing methods, or testing and operation of equipment when inspection is impossible, inaccessible or not applicable.
- e. Modification, repair, replacement or rework items shall be inspected in accordance with original inspection requirements or acceptable alternatives.

10.2.5 Inspection, Witness, and Hold Point Identification

Appropriate inspection, witness or hold points shall appear in process documents (e.g., construction, testing, operating and maintenance procedures). These process procedures are subject to the review of the Quality Control organization for adequacy of inspection, witness, and hold points.

Mandatory hold points shall be identified in process documents when witnessing and inspecting must be performed and signed-off by the responsible personnel before work can proceed.

FPL procurement documents shall indicate FPL witness or hold points applicable prior to during, or after the manufacture of an item or the performance of a service. A distinction shall be made between witness points and mandatory hold points.

## 10.3 <u>RESPONSIBILITIES</u>

- 10.3.1 Direct Reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division that perform inspection activities are responsible for:
  - 1. implementation of a program for inspection activities;



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- 2. ensuring that this program verifies compliance with applicable portions of Technical Specifications, SAR requirements, procurement documents, other operating license requirements and the QA Manual;
- 3. ensuring coordination with QC for incorporation of QC inspection and hold points into procedures and work documents;
- 4. ensuring that inspections are not inadvertently omitted or bypassed;
- 5. ensuring that personnel assigned to perform inspections are appropriately qualified and certified;
- 6. ensuring inspection procedures are reviewed by Nuclear Assurance personnel to determine the need for an independent inspection and the degree and method if such an inspection is required, and to ensure the identification of inspection personnel and the method of documentation of inspection results.
- 10.3.2 The Vice President Nuclear Assurance is responsible for:
  - 1. implementation of a program for inspection and surveillance activities;
  - 2. ensuring that required QC inspections are incorporated into inspection/test/maintenance procedures, design change documents, and work process control documents;
  - 3. ensuring that inspections and surveillances are correctly performed and documented;
  - 4. reviewing inspection procedures to determine the need for an independent inspection and the degree and method if such an inspection is required, and to ensure the identification of inspection personnel and the method of documentation of inspection results.

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TEST CONTROL

#### 11.1 GENERAL REOUIREMENTS

A test program shall be established to assure that testing required to demonstrate that structures, systems and components will perform satisfactorily in service is identified, accomplished, and documented in accordance with written procedures. The test program shall include, as appropriate, proof tests, prior to installation, preoperational tests, start-up tests, and retest following repairs, replacements or modifications.

#### 11.2 IMPLEMENTATION

#### 11.2.1 Test Program

Testing requirements shall be identified in the engineering/design documents, SAR documents, procedures, or procurement documents, as appropriate. Retest following repairs, replacements, or modifications shall be performed in accordance with the original design and test requirements or acceptable alternatives. Retest shall be performed when the original test results are invalidated. A schedule shall be provided and maintained to provide assurance that all tests are performed and properly evaluated on a timely basis.

Quality-Procedures and Quality Instructions shall be written which delineate the methods and responsibilities for scheduling, controlling, accomplishing, and documenting testing.

FPL may delegate the implementation of all or any part of the test program to other organizations but shall retain ultimate responsibility for the program. The contractor shall be required to control, perform and evaluate tests in accordance with written procedures and shall be required to prepare a written test program detailing the testing required.

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11.2.2 Test Procedure Preparation and Test Performance

Testing shall be accomplished in accordance with written approved test procedures which incorporate or reference the requirements and acceptance limits in the applicable design and procurement documents. Test procedures shall be revised as necessary to assure that tests are performed in accordance with the latest approved information. The test procedure or test program documents shall include or reference the following as a minimum:

- a. Instructions for the testing method used (including precautions, limitations, and restoration of normal conditions upon test completion);
- b. Required test equipment and instrumentation;
- c. Test requirements and acceptance criteria;
- d. Hold, witness, inspection and data collection points;
- e. Test prerequisites such as: calibrated instrumentation; trained, qualified, and licensed or certified personnel; preparation, condition and completeness of item to be tested; suitable and controlled environmental conditions; defined system interfaces; initial plant conditions.
- f. Methods for documenting or recording test data and results;
- g. Test records shall identify:
  - 1) Inspector or data-recorder Identification of personnel performing the testing activities;
  - 2) Method or type of observations;
  - 3) Test or inspection results (to include pertinent test data);

| Rev. 4 Draft         Date       11/10/93         QP DELETION PROJECT       3 of 4         4)       Specific measuring and test equipment utilized for testing;         5)       As found and as left condition (as applicable);         | Rev. 4 Draft         Date 11/10/92         QP DELETION PROJECT         3 of 4         4) Specific measuring and test equipment utilized for testing;         5) As found and as left condition (as applicable);         4)6) Statement of acceptability;                     |              | TOPICAL QUALITY ASSURANCE REPORT | TQR 11.0      |
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| <ul> <li>4) Specific measuring and test equipment utilized for testing;</li> <li>5) As found and as left condition (as applicable);</li> </ul>                                                                                          | <ul> <li>4) Specific measuring and test equipment utilized for testing;</li> <li>5) As found and as left condition (as applicable);</li> <li>4)6) Statement of acceptability;</li> <li>5)7) Date of observation; and</li> </ul>                                              | len hav free | QP DELETION PROJECT              | 3 of 4        |
| ()6) Statement of accontability                                                                                                                                                                                                         | 5)7) Date of observation: and                                                                                                                                                                                                                                                | 5)           |                                  |               |

6)8) Deficiencies and nonconformances, and the action taken in connection with these deficient conditions, either by inclusion or by reference to other documents.

## 11.2.3 Evaluation of Test Results

The documented test results shall be evaluated against the predetermined acceptance criteria by a group or individual having appropriate qualifications. The acceptance status of the test shall be documented. Deficiencies noted during the evaluation shall be documented and dispositioned in accordance with TQR 15.0 and approved Quality. Procedures or Quality Instructions.

The evaluation of the test results may be delegated to other organizations; however, FPL shall retain the responsibility for the evaluation. The evaluating organization shall be required to use qualified personnel, evaluate the data against predetermined criteria, and document the results of the evaluation and acceptance status of the test.

#### 11.3 <u>RESPONSIBILITIES</u>

11.3.1 The Site Vice President is responsible for:

- 1. Assuring that plant tests are identified, scheduled, controlled, performed and documented;
- 2. Assuring that plant test procedures are reviewed and approved.

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**11.3.2** The Vice President Nuclear Assurance is responsible for:

1. Assuring that test procedures specify necessary quality requirements such as witness and hold points, and adequate data sheets.

11.3.3 The Director Protection & Control Systems is responsible for:

- 1. Assuring the identification, scheduling, control, performance, and documentation of tests performed by Protection & Control Systems;
- 2. Submitting test procedures to the Plant General Manager for review;
- 3. Coordinating test schedules with the Plant General Manager.

11.3.4 The Vice President Nuclear Engineering and Licensing is responsible for:

- 1. Specifying the need for pre-installation and post-installation testing of items within his purview;
- 2. Writing test procedures as requested;
- 3. Evaluating test results as requested.

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#### CONTROL OF MEASURING AND TEST EQUIPMENT QP DELETION PROJECT

#### 12.1 GENERAL REOUIREMENTS

Measures shall be established to assure that tools, gages, instruments, and other measuring and testing devices used in activities affecting quality are properly controlled, calibrated, and adjusted at specified periods to maintain accuracy within necessary limits. It is the responsibility of each department maintaining calibrated instruments to provide for the calibration and control of such instruments.

#### 12.2 IMPLEMENTATION

12.2.1 Calibration and Control of Measuring and Test Equipment

Procedures shall be written to delineate the methods and responsibilities for the control, maintenance, and calibration of measuring and test equipment (M&TE) and installed plant instrumentation and control equipment. M&TE control procedures or calibration program documents shall contain the following:

- a A complete listing of M&TE and installed plant instrumentation and control equipment to be controlled;
- b. The frequency of calibration of listed M&TE and installed plant instrumentation and control equipment. The frequency may be based on calendar time or relate to usage, and be based on such factors as experience, inherent stability, instrument purpose, or accuracy required; and shall be based on such factors as licensing commitments, regulatory requirements, experience, inherent stability, manufacturer's recommendations, purpose of use, frequency of service, or company standards. A schedule for calibration shall be established and shall indicate as a minimum the instrument, calibration frequency, and procedure to be used or the identification of the approved supplier qualified to provide calibration services.
- c. A method for controlling issue and recall of portable M&TE;

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- A method to uniquely identify controlled M&TE (e.g., labeling), required d. calibration frequency and calibration test data applicable to the M&TE and installed plant instrumentation and control equipment;
- A Mmethod to document and maintain the status of M&TE and installed plant e. instrumentation and control equipment.

M&TE shall be calibrated in environments which will not adversely affect their accuracy. When inaccuracy due to environmental effects cannot be avoided, compensating corrections shall be determined and applied in accordance with the manufacturer technical instructions.

M&TE and reference standards shall be suitably marked so that the calibration status can be determined.

FPL may delegate the control and/or calibration of M&TE to other organizations. FPL, however, retains ultimate responsibility for control and calibration, and the contractor shall meet the requirements of this TQR or an acceptable alternative program as required by the procurement document for the contracted services.

#### 12.2.2 Calibration Procedure

M&TE, reference standards, and listed installed plant instrumentation and control equipment shall be calibrated in accordance with written approved procedures. The Calibration procedures shall contain, or reference as a minimum:

- a. Identity of M&TE or equipment to which the procedure applies;
- Calibration equipment and reference standards to be used; b.
- Acceptance criteria; c.
- d. Sequence of operations;-and-special instructions-
- Special instructions (such e. as, prerequisites. power level requirements, precautions, limitations) as applicable.
- e.f. Documentation and data collection requirements;

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- f-g. A requirement that equipment to be calibrated M&TE, be checked and results recorded before adjustments or repairs are made;
- g-h. Calibration frequency required.

## 12.2.3 Calibration Standards

M&TE shall be calibrated using reference standards whose calibration has a known, documented, valid relationship to nationally recognized standards or accepted values of natural physical constants. If no national standard exists, the basis for calibration shall be documented. Standards and reference standards shall have an accuracy level, range and stability which are adequate to verify that the equipment being calibrated is within tolerance and adequate for the programmatic requirements of the equipment being calibrated.

M&TE shall be calibrated against working standards having an accuracy of at least four times the required accuracy of the equipment being calibrated. When this is not practical, working standards shall have an accuracy that assures that the M&TE being calibrated will be within required accuracy tolerances and that the basis of acceptance is documented and authorized by designated responsible management.

The meaning of this paragraph may be diagrammed as follows:

| <br>NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY |
|----------------------------------------------------|
| (NIST)                                             |
| "greater than" tolerance                           |
| <br>PRIMARY STANDARD (if applicable)               |
| "greater than" tolerance                           |
|                                                    |

\_\_\_\_ SECONDARY STANDARD (if applicable)

- "greater than" tolerance
- WORKING STANDARD
  - "1:4 ratio" tolerance (except as noted above)
- \_\_\_\_\_ M&TE (installed instruments and measuring and test equipment used for inspection, maintenance, etc.)

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## CONTROL OF MEASURING AND TEST EQUIPMENT

The accuracies of M&TE and reference standards shall be chosen such that the equipment being calibrated can be calibrated and maintained within the required tolerances.

#### 12.2.4 "Out of Tolerance" Control and Corrective Action

The reporting, follow-up, and correction of conditions adverse to quality found during calibration or calibration checks shall be documented. M&TE and reference standards, when found out of tolerance, shall be so identified and removed from service, tagged to indicate its status and segregated from M&TE in service, pending disposition of corrective action.. An documented investigation shall be conducted to determine the validity of previous inspection or test results gained through use of the instrument, and of the acceptability of items previously inspected or tested.

#### 12.3 <u>RESPONSIBILITIES</u>

12.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division shall be responsibile for:

- a) assuring that the affected plant departments establish and maintain a calibration control program;
- b) assuring that written procedures governing calibration activities are reviewed and approved prior to use;
- c) assuring that documentation of calibration activities are reviewed and approved.
- 12.3.2 The Director Protection & Control Systems is responsible for assuring that calibration control procedures for installed plant instrumentation and control equipment under his control are submitted to the Plant General Manager for review, and for coordination of calibration activity schedules with plant supervisors.

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HANDLING, STORAGE, SHIPPING

CLEANNESS CONTROL, AND HOUSEKEEPING

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## 13.1 <u>GENERAL REOUIREMENTS</u>

Written instructions or procedures shall be established and implemented for the cleaning, shipping, storage, preservation, packaging, and handling of specified items. These instructions and procedures shall delineate measures which prevent degrading an item through damage or deterioration. When necessary for particular products, special protective environments such as inert gas atmosphere, specific moisture content levels, and temperature levels shall be specified and provided.

Housekeeping procedures and instructions shall require cleanness to be maintained at a level consistent with the work performed to prevent the entry of foreign material into safety related systems. Control of personnel, tools, equipment and supplies shall be established with approved procedures or instructions when the safety function of a system, component or item may be jeopardized and also while the reactor system is opened for inspection, maintenance or repair. Documented cleanness inspections shall be performed prior to system closure.

## 13.2 IMPLEMENTATION

#### 13.2.1 General

Instructions or procedures shall be written to define the requirements and responsibilities for the housekeeping, cleaning, packaging, preservation, handling, storage, and shipping of equipment and material, and shall require implementation of the established design and specification requirements by personnel having appropriate qualifications. FPL may delegate any portion of the responsibility for cleaning, housekeeping, handling, storage and shipping of material and equipment, but shall retain ultimate responsibility. Where any of the functions in the sections which follow is delegated to a contractor, the contractor shall be required to adhere to the FPL requirements stated herein.

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#### 13.2.2 Handling, Storage, and Shipping Procedures

Materials and equipment which are to be incorporated into a safety-related system of a nuclear power plant shall be handled, stored, and shipped in accordance with written procedures, where necessary, to implement the design document and purchase order requirements. These procedures shall assure that cleaning, handling, storing, packaging, shipping, and preserving materials, components and systems will preclude damage, loss, or deterioration by environmental conditions, such as temperature or humidity.

Site specific procedures or specific work instructions shall be developed which provide guidelines in handling heavy loads that are lifted over, or in proximity to, irradiated fuel or safe shutdown equipment/systems.

The preparation and/or implementation of these procedures may be delegated to other organizations, but FPL shall retain the ultimate responsibility for proper material handling, storage, and shipping.

13.2.4 ---- Verification of Proper-Handling, Storage, and Shipping.

The-Quality Assurance-Department-shall-be-responsible-for-verification-of-proper handling, storage and shipping at vendor facilities.

#### 13.2.3 Cleanness Procedures

Procedures or work instructions for cleaning; cleanness control practices and inspections; examinations or tests to verify cleanness of items; shall be prepared and implemented.

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#### HANDLING, STORAGE, SHIPPING CLEANNESS CONTROL, AND HOUSEKEEPING QP DELETION PROJECT

#### **13.2.4** Housekeeping Procedures

Methods and techniques for controlling and maintaining housekeeping and documenting housekeeping surveillances and inspections shall be delineated in procedures or instructions.

#### **13.3** Responsibilities

- 13.3.1 The Site Vice President has overall responsibility for ensuring that handling, storage, shipping, cleanness and housekeeping requirements are identified, and implemented.
- **13.3.2** The Vice President Engineering and Licensing is responsible for:
  - a. Identifying special handling and storage requirements for site fabricated items in applicable design output documents/work instructions.
  - b. Identifying cleaning and cleanness verification methods in appropriate specifications, drawings or procedures.
- 13.3.3 The Vice President Nuclear Assurance is responsible for:
  - a. Verifying proper handling, storage, and shipping activities at supplier facilities.
  - b. Verification of housekeeping, handling, storage, shipping and cleanness of items through inspections, surveillances, examinations or tests at the plant site.

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#### 14.1 GENERAL REQUIREMENTS

Measures shall be established to indicate by the use of markings such as stamps, tags, labels, routing cards or other suitable means, the status of inspections and tests performed on material, equipment, or systems. These measures shall provide for the identification of items which have satisfactorily passed required inspections and tests. Measures shall also be established for indicating the operating status of structures, systems and components to prevent inadvertent operations.

#### 14.2 IMPLEMENTATION

#### 14.2.1 General

For-operations-activities, the-Nuclear-Division-is-responsible-for-establishment-and maintenance of a A suitable system for identifying the inspection, test, and operating status of materials, equipment, systems, and components shall be established. For plant-modifications-assigned-to-Nuclear-Construction-Services-Department-or-when requested by the Plant-General Manager, the Site-Construction Services Manager is responsible-for establishing-a-suitable-system-for-identifying, inspecting and testing-formaterial, equipment, systems and components which is approved by the Plant General Manager. Each system shall be established shall be implemented and maintained in accordance with written Quality Procedures and Quality Instructions. The Architect/Engineer or Contractors shall develop and implement procedures to comply with contractual responsibilities, and applicable codes, standards, specifications, and criteria governing the status identification of procurement items being tested, installed, or fabricated. The Architect/Engineer (where applicable), suppliers and contractors shall be required to maintain a system for identifying the inspection, test and processing status of materials, parts, and components. Elements of this system require that suppliers and contractors have a controlled manufacturing and test operation in order to preclude the inadvertent bypassing of processing, inspections or test, and to provide a positive identification of component status throughout all phases of manufacturing, testing, and

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inspecting, by means of tagging, routing cards, stamping, manufacturing or test reports, labeling or other appropriate methods. <u>The Vice-President</u> <u>Turkey Point Plant or Strucie Plant and the Quality Assurance Department shall Methods</u> to verify adequacy of the controls shall be established and implemented, as appropriate. for their site.

#### 14.2.2 Status Identification and Control

Quality Procedures and Quality Instructions shall describe control of the application and removal of markings such as stamps, tags, labels, routing cards, and other suitable means to indicate the status of non-operational, nonconforming, or malfunctioning nuclear safety related structures, systems and components to prevent inadvertent operation, and to prevent omission of inspections, tests, or other critical operations. These procedures and instructions shall delineate the requirements, methods and responsibilities for indicating the status of the affected items. These procedures will clearly delineate the individuals or groups responsible for application and removal of status indicators. These procedures shall require independent verifications, where appropriate, to ensure that necessary measures have been implemented.

#### 14.3 **RESPONSIBILITES**

- 14.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division shall be responsible for coordinating activities affecting the inspection, test and operating status of material, equipment, systems and components with the appropriate plant organization.
- 14.3.2 The Site Vice President is responsible for the establishment, maintenance, and implementation of a suitable system for identifying, inspecting, testing, and providing operating status of material, equipment, systems and components in accordance with written and approved procedures and instructions and the approval of other programs utilized on site which provide for inspection, test and operating status.

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14.3.3 The Vice President Nuclear Assurance is responsible for assuring that requirements are implemented per written instructions and procedures.

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#### NONCONFORMING MATERIALS. PARTS OR COMPONENTS *QP* DELETION PROJECT

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#### 15.1 **GENERAL REQUIREMENTS**

Measures shall be established to control materials, parts, or components which do not conform to requirements in order to prevent their inadvertent use or installation. These measures shall include, as appropriate, procedures for identification, documentation, segregation, disposition and notification to affected organizations. Nonconforming items shall be reviewed and accepted, rejected, repaired or reworked in accordance with documented procedures.

#### 15.2 **IMPLEMENTATION**

#### 15.2.1 Program

Quality Procedures and Quality Instructions shall define the responsibilities and methods for identifying, documenting, segregating and dispositioning nonconforming items. For procedure-review requirements,-see TQR-2.0-and TQR-5.0. Each-department shall-be responsible for-the-identification, control-and-disposition of nonconformances within the scope of their departmental-responsibilities. Throughout plant life, FPL may delegate any portion of the identification and control of nonconforming items and services to an Architect/Engineer (A/E), constructor, NSSS vendor or other contractors. In any case, FPL retains the responsibility for assuring that requirements are met, and shall assure that the contractor's actions conform to requirements set by FPL.

#### 15.2.2 Documenting and Controlling Nonconformances

All nonconformances-in-safety-related-items shall be documented and reported for corrective action. Measures shall be delineated in Quality-Procedures and Quality Instructions which control further processing, installation, or operation of nonconforming items. These measures shall include:

Physical identification of the item as nonconforming. a.

Segregation of nonconforming items until properly dispositioned. b.

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Where physical segregation is not practical, suitable tags, marking or documentation shall be used to assure control.

The control of, and the documentation generated by the identification, disposition, correction, and verification of nonconformances may be transferred between processing methods. Adequate controls shall be established to assure traceability between processing methods and the identified nonconforming item and to prevent inadvertent cancellation of the corrective action implementing document.

#### 15.2.3 Documentation

Documentation of the nonconforming item shall: identify the item; describe the nonconformance; show disposition of the nonconformance and inspection requirements; and include the signature of the person approving the disposition.

15.2.4 Evaluation and Disposition

Nuclear Engineering, or the other delegated contractor organizations, as specified by procedure, shall evaluate nonconformances and disposition them based on the results of the evaluations. Nonconforming conditions which cannot be made acceptable utilizing existing design documents shall be evaluated by Nuclear Engineering for disposition. These evaluations and dispositions shall be reviewed, approved and documented in accordance with procedures.

An evaluation to determine the disposition of nonconforming items shall be performed. The evaluation shall determine whether an item is to be accepted as-is, repaired, reworked or rejected. A technical evaluation shall be performed when an item is accepted as-is or is repaired to an acceptable condition. Records of the disposition of these items shall be made part of the nonconformance report. This evaluation shall assure that the final condition does not adversely effect safety, operability or maintainability of the item, or of the component or system in which it is installed.



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The A/E, or other contractors on-site, shall be required to inform FPL as specified in procurement documents prior to use or installation of a nonconforming item. The nature and extent of a nonconformance and the reason for proposing its use or installation shall be justified. Nonconforming items dispositioned "accept as-is", or repaired to an acceptable condition, shall be so identified. Nonconformance reports for those items shall be made part of the item records and forwarded with the material to FPL.

- The determination of the need and the advisability of releasing nonconforming materials or items, is-made-by-the shall be initiated by the Site Vice President, and approved by Nuclear Engineering Department. The following factors may be appropriate considerations in making this determination:
  - a. Effect on the orderly progress of work if material or items are released;
- b. Safety of personnel;
- c. Suitability of material or items in "as-is" condition, i.e., probability of eventual satisfactory resolution of the nonconformance without repair, rework, or replacement;
- d. Accessibility of material or items after release;
- e. Cost of removal and repair of replacement should material or items eventually have to be removed, repaired, or replaced;
- f. Impact on plant safety.

Items shall be reworked or repaired in accordance with documented procedures and shall be verified by reinspecting the item as originally inspected or by a documented method which is at least equal to the original inspection method.

Nuclear-Assurance personnel shall periodically review-nNonconformance reports shall be periodically reviewed to identify quality trends. The results of these analyses shall be reviewed with appropriate members of upper level management. эм N

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# 15.3 **RESPONSIBILITIES**

- 15.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division are responsible for:
  - a) the generation of instructions/procedures to implement requirements for the identification, control, disposition, and verification of nonconformances within their purview;
  - b) identifying and documenting nonconforming items within the scope of their departmental responsibilities;
  - c) submitting nonconformances requiring design evaluations to the appropriate engineering organizations;
  - d) tracking and control of open nonconforming items within the scope of their departmental responsibilities;
  - e) dispositioning and verifying the resolution of nonconforming items within the scope of their departmental responsibilities;
  - f) periodically assessing quality trends related to nonconformances.
- 15.3.2 The Site Vice President is responsible for:
  - a) supplier notification and follow-up of nonconformances requiring supplier corrective actions.
- 15.3.3 The Vice President Nuclear Assurance is responsible for:
  - a) periodically assessing quality trends related to nonconformances and reviewing the results of these assessments with appropriate members of upper level management.

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15.3.4 The Vice President Nuclear Engineering and Licensing is responsible for:

- a) the review, evaluation, and disposition of nonconformances submitted by other departments;
- b) approval of release of nonconforming items
- c) supplier notification and follow-up of nonconformances requiring supplier corrective actions.

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#### 16.1 **GENERAL REOUIREMENTS**

Documented measures shall be used to assure that conditions adverse to quality such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances, are promptly identified and corrected as soon as practicable. In the case of significant conditions adverse to quality, the cause of the condition shall be determined and action taken to preclude repetition. The identification of significant conditions adverse to quality, the cause of the condition, and the corrective action taken shall be documented and reported to appropriate levels of management.

#### 16.2 **IMPLEMENTATION**

#### 16.2.1 Corrective Action and Follow-Up

· Quality-Procedures and Quality Instructions shall define responsibilities and methods for identifying and correcting conditions adverse to quality. When an adverse condition is detected, a determination shall be made by plant supervision or Nuclear Assurance personnel as to whether immediate or routine corrective action is required.

"Immediate Corrective Action" applies to conditions which pose a threat to plant a. safety or to the health and safety of the public, which could result in major equipment and material damage, or could, if not corrected, produce defects of significantly greater consequences than those immediately resulting from the condition. "Immediate Corrective Action" is accomplished through stopwork requests/orders to appropriate levels of management, requiring that work be stopped, the plant be shut down or other appropriate actions be taken.

Specific personnel having stop work authority include the Plant General Manager, Site Quality Manager and Plant Vice President.

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b. "Routine Corrective Action" applies to conditions which do not require immediate corrective action. Routine corrective action is assured through the distribution and disposition associated with inspection reports, surveillance reports, nonconformance reports, and audit reports; and the investigation analysis and action associated with reportable conditions events.

Interdepartmental corrective action shall be requested by use of written correspondence. Audit reports, nonconformance reports, interoffice letters, and other documents may be used for this purpose.

Follow-up to verify implementation of corrective action and close-out of corrective action documentation is accomplished by the QA-or-QC organization responsible for verifying the corrective action. The Quality Nuclear Assurance Department shall track, follow-up, and closeout open items identified by QA-Nuclear Assurance Department audits-and-vendor-surveillances. The respective department or plant shall track those items charged to its operating license by the NRC. Each department shall be responsible for follow-up and close-out of corrective action resulting from their departmental inspections, tests, or operations.

If corrective action is inadequate or not timely, the follow-up organization shall request corrective action from management, as delineated in procedures. The President Nuclear Division is the final authority in the event that agreement is not reached at lower levels regarding stop work requests or other corrective action.

Where corrective action is required of contractor personnel, FPL shall define in procedures and contracts the corrective action interface between FPL and the contractor. FPL shall require the A/E, NSSS vendor, constructor and other suppliers of safety related materials and services to have a documented corrective action system.

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## 16.2.2 Recurrence Control

It is the responsibility of the organization which identifies the significant condition adverse to quality to verify that corrective action description not only corrects the immediate condition, but also precludes the condition from recurring. The organization(s) that provide(s) the corrective action disposition and implementation is responsible to assure that the corrective action taken not only corrects the immediate condition, but also precludes recurrence.

## 16.2.3 Incidents and Reportable Events Reporting

Operating reportable events and reports of incidents shall be investigated, documented as to cause and corrective action, and reported to the NRC in accordance with the applicable plant Technical Specifications and Federal Regulations. Reportable events and reports of incidents that are safety related or that result in damage shall be forwarded to the Company Nuclear Review Board (CNRB) for review. Conditions adverse to quality are reported to operating plant management through: distribution of QA audit reports, QC inspection reports, corrective action requests, and the investigation and reporting of reportable events in accordance with plant Technical Specifications.

# 16.3 Responsibilities

- 16.3.1 The President Nuclear Division is the final authority in the event agreement relating to stop work requests or other proposed corrective action is not reached at lower management levels.
- 16.3.2 Direct reports of the President Nuclear Division and Department Heads of organizations supporting the Nuclear Division are responsible for:
  - a. Assuring that timely corrective action within their respective organization.

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- b. Follow-up and assuring completion of corrective action resulting from their respective department's audits, inspections, surveillances, tests, or operations.
- c. Reviewing and investigating audit findings to determine and schedule appropriate corrective action and responding as requested in the audit report.
- 16.3.3 The Vice President Nuclear Assurance has the responsibility and authority to recommend that work be stopped or appropriate corrective action taken as a result of QA findings during department audits and reviews or QC activities.
- 16.3.4 All personnel detecting conditions adverse to quality or significant conditions adverse to quality are responsible for reporting such conditions to the appropriate authority.

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TOPICAL QUALITY ASSURANCE REPORT

QUALITY ASSURANCE RECORDS QP DELETION PROJECT

# 17.1 GENERAL REOUIREMENTS

Sufficient records shall be maintained to furnish documented evidence of the quality of safety related structures, systems, and components, and of activities affecting their quality. The records shall include, as appropriate, data such as qualifications of personnel, procedures, and equipment; and other documentation such as inspection or test acceptance criteria, and the action taken in connection with deficiencies noted during inspection.

The records required to furnish documentary evidence of quality, herein called quality assurance records, shall be identifiable and retrievable. These records shall be maintained in facilities that provide a suitable environment to minimize deterioration or damage and to prevent loss.

The requirements and responsibilities for quality assurance record control, transmittal, retention, and maintenance shall be established and documented. These record requirements shall be consistent with applicable design, manufacturing, and installation codes and standards, and with procurement document requirements.

# 17.2 IMPLEMENTATION

# 17.2.1 Records Identification

Quality Procedures Instructions shall define the quality assurance records necessary to furnish documentary evidence of the quality of safety related structures, systems, and components; and activities affecting quality. These records shall include plant operating logs; results of design reviews, inspections, tests, audits, and material analyses; qualification of personnel, procedures, and equipment; design records such as drawings and specifications; procurement documents; calibration records; and nonconformance or corrective action reports.

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Quality assurance records shall be classified as lifetime or nonpermanent as required by the NRC facility operating license, the NRC construction permit, applicable parts of 10CFR, the FSAR, or other NRC commitments.

#### 17.2.2 Responsibilities

Responsibilities shall be established and documented for the control, transfer, maintenance, and retention of quality assurance records. Quality Procedures shall provide guidance for determining the retention requirements of quality assurance records. Each organization responsible for the conduct of a quality activity shall be responsible for the maintenance of the subsequent quality assurance records unless retention responsibilities have been transferred by a prearranged agreement. In any case, the organization initiating the quality assurance records shall be responsible for their validity and approval.

17.2.2

### 17.2.3 Retrieval

Quality Procedures shall require that qQuality assurance records submitted for retention shall be legible, completely filled out, and adequately identifiable and retrievable for each item. The records shall be filed in a the storage area or facility using a documented system to provide retrievability. Quality Procedures Instructions shall additionally require control of corrections and supplements issued for quality assurance records that are previously approved and filed, and that documented methods for control and accountability of records removed from the storage area be instituted.

### 17.2.43 Storage

Specified in the Quality Procedures are the cConstruction features and location requirements for record storage facilities shall be established to which assure that quality assurance records are protected from possible destruction by causes such as fire, flooding, theft, tornadoes, insects, rodents, and from possible deterioration by a

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combination of extreme variations in temperature and humidity. Specific instructions regarding the storage area are shall be given for special processed records and for temporary storage facilities.

A QA Record Storage Evaluation Team (QARSET) shall be established to determine if the methods utilized to store and protect QA records are adequate. The QARSET shall consist of the following: the Quality Manager - Juno Beach, the Loss Prevention Engineer, and the Nuclear Records Official. The QARSET shall maintain records of evaluations and establish schedules to assure that reevaluations are performed every two (2) years. The QARSET shall evaluate the status of existing facilities and the adequacy of additional records facilities prior to the construction of a new facility or the conversion of existing structures. The requirements of the Topical Quality Assurance Report, Appendix C shall be utilized in the evaluation of potential permanent and temporary record storage facilities.

## 17.3 **RESPONSIBILITIES**

- 17.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division that generate quality assurance records are responsible for:
  - a) the technical content and accuracy of the records they generate;
  - b) transmitting records to the appropriate storage facility or requesting approved storage locations from QARSET;
  - c) establishing a list of quality assurance records generated by the organization and their retention times and assuring that these quality assurance records are identified in the appropriate quality assurance record index;

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| Rev.       3 Dr.         QUALITY ASSURANCE RECORDS       Date       11/10         QP DELETION PROJECT       4 of         d)       the storage and retrieval of quality assurance records prior to transmittal to permanent record storage facilities;       e)       performing periodic surveys to ensure that their record control system is adequate.         17.3.2       The Nuclear Records Official is responsible for:       a)       ensuring the quality assurance records program activities are managed in accordance with applicable laws and regulations;       b)       developing, approving, and maintaining record retention schedules;         c)       establishing parameters for records indexing;       w |
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| QUALITY ASSURANCE RECORDS       Date       11/10         QP DELETION PROJECT       Date       11/10         d)       the storage and retrieval of quality assurance records prior to transmittal to permanent record storage facilities;       e)       performing periodic surveys to ensure that their record control system is adequate.         17.3.2       The Nuclear Records Official is responsible for:       a)       ensuring the quality assurance records program activities are managed in accordance with applicable laws and regulations;       b)       developing, approving, and maintaining record retention schedules;         e)       establishing parameters for records indexing;       w              |
| <ul> <li><i>QP DELETION PROJECT</i> 4 of</li> <li>d) the storage and retrieval of quality assurance records prior to transmittal to permanent record storage facilities;</li> <li>e) performing periodic surveys to ensure that their record control system is adequate.</li> <li>17.3.2 The Nuclear Records Official is responsible for: <ul> <li>a) ensuring the quality assurance records program activities are managed in accordance with applicable laws and regulations;</li> <li>b) developing, approving, and maintaining record retention schedules;</li> <li>c) establishing parameters for records indexing;</li> <li>d) locating accentable record storage areas when requested;</li> </ul> </li> </ul>             |
| <ul> <li>d) the storage and retrieval of quality assurance records prior to transmittal to permanent record storage facilities;</li> <li>e) performing periodic surveys to ensure that their record control system is adequate.</li> <li>17.3.2 The Nuclear Records Official is responsible for: <ul> <li>a) ensuring the quality assurance records program activities are managed in accordance with applicable laws and regulations;</li> <li>b) developing, approving, and maintaining record retention schedules;</li> <li>c) establishing parameters for records indexing;</li> <li>a) locating accentable record storage areas when requested;</li> </ul> </li> </ul>                                                      |
| <ul> <li>e) storage, retrieval, and control of records/documents as requested by other departments;</li> <li>f) leading the evaluation of specially designated QARSET approved storage facilities, maintaining records of this evaluation, and establishing schedules to assure that re-evaluations are performed</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                     |

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- 17.3.4 The Manager Administrative Services is responsible for:
  - a) storage, retrieval, and control of records and documents as requested by other departments.
- 17.3.5 The Quality Assurance Record Storage Evaluation Team (QARSET) is responsible for:
  - a) evaluating the acceptability of storage locations for quality assurance records;
  - b) ensuring that evaluations of storage locations are performed every two years.

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# 18.1 GENERAL REOUIREMENTS

A comprehensive system of planned and periodic audits shall be carried out to verify compliance with all aspects of the quality assurance program and to determine the effectiveness of the program. The audits shall be performed in accordance with the written procedures or checklists by appropriately trained personnel not having direct responsibilities in the areas being audited. Audit results shall be documented and reviewed by management having responsibility in the area audited. Follow-up action, including reaudit of deficient areas, shall be taken, where necessary.

# 18.2 IMPLEMENTATION

A comprehensive program of audits is carried out by the Quality Assurance Department during the design, procurement, construction, and operations phase of nuclear power plants. These audits are performed to verify that all safety related activities associated with nuclear power plants are carried out in accordance with the requirements of the FPL QA Program, and that the implementation is effective.

# 18.2.1 Personnel

Quality Procedures Instructions shall provide instructions for the training of QA Department personnel who perform audit activities, to assure that they are adequately indoctrinated and trained, and that they are qualified to carry out these activities. Quality Procedures Instructions provide for personnel qualified as Lead Auditors to be formally certified by Quality Assurance Department management. Certification shall be based on education, experience, training and other specified criteria.

## 18.2.2 Planning and Scheduling

Quality Procedures and Quality Instructions Instructions provide requirements for written audit plans and schedules. The audits are planned and scheduled on the basis of the following:

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# AUDITS

- a. Activities shall be audited as early in their life as practicable. Auditing shall be initiated early enough to assure effective quality assurance during the design, procurement and contracting activities.
- b. The system of audits devised to verify compliance with safety and quality related aspects of the nuclear plants is described in each unit's technical specifications. Audits of selected aspects of operational phase activities are performed with a frequency commensurate with safety significance. As a minimun, unless otherwise specified by technical specifications, the Code of Federal Regulations or other licensing commitments, these audits are performed at a biennial (2-year) frequency. The audit system is reviewed periodically and revised as necessary to assure coverage commensurate with current and planned activities.
- c. An annual evaluation of suppliers' quality performance history shall be performed to determine reaudit requirements. Reaudit requirements for suppliers shall be based on the supplier's quality performance and the complexity and criticality of the equipment or service being procured. A facility evaluation (audit) will be performed at least every three years and shall be conducted in accordance with Quality Procedures and Quality Instructions Instructions for supplier evaluations.
- d. Audits shall be regularly scheduled for on-going activities.
- e. Regularly scheduled audits shall be supplemented, as required to cover unforeseen events or changes in requirements.

The scope of audit activities shall include, as a minimum:

- a. The determination of site features which affect plant safety (e.g., core sampling, site preparation, and meteorology).
- b. The preparation, review, approval, and control of the SAR, designs, specifications, procurement documents, instructions, procedures, and drawings.

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- c. Evaluation of bids.
- d. Indoctrination and training programs.
- e. Receiving and plant inspections.
- f. Operation, maintenance/repair and modification.
- g. The implementation of operating and test procedures.
- h. All criteria in Appendix B to 10 CFR Part 50.
- i. Validity of Certificates of Conformance.

External audits shall be performed by the Quality Assurance Department on Architect/Engineers, NSSS vendors, constructors, and other suppliers of safety related materials and services to evaluate their QA programs, procedures and activities. Procurement documents shall require that FPL suppliers and contractors in turn perform audits on their sub-tier suppliers and contractors.

## 18.2:3 Conduct of Audits

Quality Procedures and Quality Instructions Instructions shall delineate requirements for the conduct of audits. These procedures and instructions shall require that:

- a. Audits be conducted by trained and qualified personnel.
- b. Personnel conducting audits shall not have direct responsibility in the area audited.
- c. Checklists or procedures instructions shall be used to ensure depth and continuity of audits.

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- d. Objective evidence shall be examined for compliance with quality assurance program requirements. This shall include examination of procedures instructions and activities to assure that documented objective evidence is meaningful and in compliance with the overall Quality Assurance Program.
- e. Audits shall include evaluation of work areas, activities, processes and items; and the review of documents and records.
- 18.2.4 Reporting of Audit Findings

Audit findings shall be documented in written reports. Audit reports shall be distributed to the responsible management of the audited FPL organization within thirty calendar days after completion of the audit.

### 18.2.5 Follow-up

Responsible management of the audited organization shall take action to correct the deficiencies identified in the audit report and provide a written response within thirty calendar days after receipt of the report. This response shall include action taken and/or planned to correct deficiencies and to prevent recurrence of the deficiencies, and commitment dates for actions not yet complete. The mechanism for evaluation and follow-up of corrective action is described in TQR 16.0. The status of correction of deficiencies shall be followed until the corrective actions have been accomplished and verified.

### 18.2.6 Reports to Management

The Quality Assurance Program status reports are periodically prepared by the QA Department periodically reports on the status of the Quality Program and routed to the members of the Company Nuclear Review Board (CNRB) for their review. This status report summarizes the results of QA Department audit activities for the period, keeps all CNRB members apprised of current conditions and program effectiveness, and when necessary, directs management attention to significant trends and problems.



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# QP DELETION PROJECT

AUDITS

# **18.3 RESPONSIBILITIES**

- 18.3.1 Direct reports to the President, Nuclear Division, and Department Heads of organizations supporting the nuclear division shall be responsible for:
  - 1. Taking action to correct deficiencies identified in audit reports.
  - 2. Providing a written response within thirty (30) calendar days of receipt the audit report.

18.3.2 The Vice President Nuclear Assurance is responsible for the following:

- 1. Scheduling audits on a regular basis.
- 2. Selecting the audit team and the Principal Lead Auditor.
- 3. Reviewing each audit report for accuracy, completeness, proper format and distribution.
- 4. Designating a qualified replacement principal Lead Auditor (in writing) if the audit team leader transfers from the respective QA group or is otherwise unable to continue <u>his/her</u> the assigned audit.
- 5. The qualification of Principal Lead Auditors.
- 18.3.3 The Chairman, Company Nuclear Review Board (CNRB) is responsible for review and concurrence of Annual Audit Program Plans, review of individual audit scopes and involvement in the audit program for internal audits as defined by CNRB procedures instructions.

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| OP-NUMBER/TITLE                                                             |                           |                                                                                                                                                                            | <del>ON</del>                                                                                                                                                   |
| <del>1.1</del><br>CANCELLED                                                 |                           |                                                                                                                                                                            |                                                                                                                                                                 |
| 2.1<br>CANCELLED<br>(Terms and Definitions con<br>in the QA Manual Glossary | tained                    |                                                                                                                                                                            | ·                                                                                                                                                               |
| <del>2.2</del><br>CANCELLED                                                 |                           |                                                                                                                                                                            |                                                                                                                                                                 |
| <del>2.3</del><br>QUALITY ASSURANCE                                         | PROGRAM REVIEW            | Provides instructions for th<br>Power-& Light Company T<br>Report (FPL TQAR). Desc<br>methods-used for-establish<br>revising and controllin<br>employed in supporting qual | e-revision of-the-Florida<br>opical-Quality Assurance<br>ribes the instructions and<br>sing, preparing, issuing,<br>og Quality—Procedures<br>lity requirements. |
| 2.4<br>PREPARATION AND RE<br>QUALITY INSTRUCTION                            | VISION OF<br>NS           | Provides the responsibilities<br>used—for—developing—f<br>Instructions, based upon Q<br>activities within a departmen<br>unique to that activity.                          | <del>, guidelines and methods</del><br>and—revising—Quality<br>P's, that-involve quality<br>at-or-organization and-are                                          |
| <del>2.5</del><br><del>QUALITY ASSURANCE :</del><br>AND DEPARTMENTAL -1     | INDOCTRINATION<br>RAINING | - Describes the requirements f<br>training of personnel w<br>responsible for activities that                                                                               | or the indoctrination and<br>tho perform, or are<br>affect quality.                                                                                             |
| 2.6<br>CANCELLED                                                            |                           |                                                                                                                                                                            |                                                                                                                                                                 |
| 2.7<br>IDENTIFICATION OF SA<br>RELATED STRUCTURES<br>AND-COMPONENTS-        | FETY                      | - Describes the development a<br>- ments identifying safety relat<br>design feature structures, syn                                                                        | nd-approval-of-docu-<br>ted-and-safety-related<br>stems-and-components-                                                                                         |
| 2.8<br>CLEANLINESS CONTRO                                                   | L-METHODS                 | Provides criteria for securi<br>Assigns responsibilities f<br>cleanliness of material, syc<br>maintained.                                                                  | ing-good-housekeeping.<br>For—assuring—that—the<br>stems-and-structures-is                                                                                      |
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# **TOPICAL QUALITY ASSURANCE REPORT**

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| ė  | <u> OP NUMBER/TITLE</u>                                                                           | <u>SECTION DESCRIPTION</u>                                                                                                                                                                                   |
|----|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 2.9<br>QUALIFICATION OF QA AUDIT, QC<br>INSPECTION, CONSTRUCTION &<br>POWER SUPPLY TEST PERSONNEL | -Describes-the-personnel-qualifications-that-are-<br>-required-to-assure-that-competent-QC-inspectors,<br>QA-auditors,-construction-and-power-supply-<br>-test-personnel-perform-these-respective-functions. |
|    | <del>2.10</del><br>HOUSEKEEPING FOR OPERATING<br>PLANTS                                           | Describes the responsibilities and controls for-<br>housekeeping at operating nuclear power plants.                                                                                                          |
|    | CANCELLED                                                                                         |                                                                                                                                                                                                              |
|    | 2.12<br>FPL-QA-PROGRAM-APPLICABILITY<br>FOR-QUALITY-RELATED-ITEMS<br>AND-SERVICES                 | – Identifies the applicability of the Quality Assurance-<br>– Program for Quality Related Items and Services.                                                                                                |
|    | 2.13<br>PROCESSING OF NRC CORRESPONDENCE                                                          | Describes the system for providing responses to NRC initiated action requests.                                                                                                                               |
| 3* | 2.14<br>IMPLEMENTATION OF<br>ASME XI                                                              | Describes the program and responsibilities for-<br>controlling activities defined by ASME Section XI.                                                                                                        |
|    | 2.15<br>CONTROL OF COMPUTER SOFTWARE                                                              | Specifies-basic-requirements for-control of the lifecycle of computer software on mainframe, stand-alone, and PC computers.                                                                                  |
|    | 2.17<br>ENVIRONMENTAL QUALIFICATION (EQ)<br>OF ELECTRICAL EQUIPMENT                               | Delineates-the responsibilities and requirements for-<br>maintaining-the-environmental-qualifications-of-<br>nuclear-plant-components.                                                                       |
|    | 3.1<br>CANCELLED                                                                                  |                                                                                                                                                                                                              |
|    | 3.2<br>IDENTIFICATION AND CONTROL OF<br>DESIGN INTERFACES                                         | -Describes measures employed for identifying and<br>controlling design interfaces, changes in design<br>- interfaces, and modifications that affect documents.                                               |





Form 2719 (Non - Stocked) Rev.1/89

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# TOPICAL QUALITY ASSURANCE REPORT

# LIST OF CORPORATE QUALITY ASSURANCE PROCEDURES

**OP NUMBER/TITLE** 

## SECTION\_DESCRIPTION

sketches and isometrics.

-Establishes-measures-for-controlling-design-changes

or modifications in operating nuclear-power plants.

Defines the responsibilities and --methods employed

Covers the preparation, review, and approval of

Describes the evaluation and control of contractor designs for fuel related components and analysis.

related design work originated by FPL.

design-input documents, design-analysis specifications, and design-verification for safety

for-the-initiation,-review,-evaluation, approval-and disposition-of-field-initiated-design-changes and miscellaneous design documents-such-as-field

# 3.4

PLANT CHANGES AND MODIFICATIONS-FOR OPERATING PLANTS

### 3.5

DESIGN CONTROL AT THE CONSTRUCTION SITE

# 3.6

CONTROL OF FPL ORIGINATED

## 3.7

EVALUATION AND CONTROL OF CONTRACTOR DESIGN FOR NUCLEAR FUEL AND RELATED SYSTEMS

# 4.1

CANCELLED

4.2 CANCELLED

4.3 CANCELLED

4.4 CANCELLED

# 4.5 CANCELLED

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4.6 PROCUREMENT CONTROL

Delineates the sequence of actions in the preparation, review, approval, and control of procurement documents.

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|--------------------|-------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Ì                  |                                                                         |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rev. 18 - DEL                                                                                          |
|                    |                                                                         | LIST OF CORPORATE QUALITY<br>ASSURANCE PROCEDURES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date 11/16/93                                                                                          |
|                    | FPL                                                                     |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Page 4 of 9                                                                                            |
|                    |                                                                         |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                        |
|                    | OP NUMBER/TITLE                                                         |                                                   | SECTION DESCRIPTIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>DN</u>                                                                                              |
|                    | 4 <del>.7</del><br>SPECIAL QUALITY ASSU<br>DOCUMENTS                    | IRANCE                                            | Describes the process for devision of the process for | velopment, revision,<br>pecial Quality Assurance                                                       |
|                    | <del>5.1</del><br>OPERATING PLANT PRC                                   | CEDURES.                                          | Describes-measures-which-<br>and—procedures-usedin-<br>identified, propared, reviewe<br>revised-inaccordance-wit<br>requirements-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ensure that instructions<br>—operating plants are<br>ed, approved, issued and<br>h-regulatory and FPL  |
|                    | 5.2<br>CONSTRUCTION SERVIC<br>PROCEDURES                                | CES-                                              | Describes the generation, rev<br>Construction Services proces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <del>riew and control of</del> . `<br><del>dures.</del>                                                |
|                    | 6.1<br>CONTROL OF CONSTRUC<br>CONTRACTOR DRAWIN<br>SPECIFICATIONS AND P | <del>CTION PROJECT<br/>38,<br/>ROCEDURES</del> -  | Defines responsibilities and r<br>and issue of contractor drawi<br>procedures to be used durin<br>of nuclear power plants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>nethods for the control</del><br>i <del>ngs, specifications and</del><br>g-the construction phase |
|                    | 6.2<br>CONTROL OF DOCUMEN<br>ISSUED BY FPL                              | · <b>TS</b>                                       | Instructions are provided for<br>issued by FPL which prescri<br>quality of safety related items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -controlling-documents-<br>be-activities-affecting-the-<br>5                                           |
|                    | <del>6.3</del><br>CANCELLED                                             |                                                   | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                        |
|                    | 6.4<br>CANCELLED                                                        |                                                   | · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                        |
|                    | <del>6.5</del><br>CANCELLED                                             |                                                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                        |
| 3d) Rev.1/89       | <del>6.6</del><br>DRAWING-CONTROL-FO<br>NUCLEAR-POWER-PLAN              | R-OPERATING<br>TS                                 | — Describes the method to be u<br>updating nuclear safety<br>operating plants after turr<br>organization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <del>sed for controlling and -<br/>-related drawings for</del><br><del>tover from the design</del>     |
| 2719 (Non - Stocke | <del>6.7</del><br>CONTROL OF VENDOR N<br>VENDOR TECHNICAL IN            | IANUALS AND<br>FORMATION                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <del>controlling technical</del><br>maintenance-and-test                                               |
| Form               |                                                                         |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                        |

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|                          |                                                                                   | LIST OF CO                            | ORPORATE OUALITY                                                                                                       | Rev. 18 - DEL                                                                           |
|                          | FPL                                                                               | ASSURAT                               | NCE PROCEDURES                                                                                                         | Page 5 of 9                                                                             |
|                          | OP NUMBER/TITLE                                                                   | · · · · · · · · · · · · · · · · · · · | <u>SECTION DESCRIPTION</u>                                                                                             | <u>)</u>                                                                                |
|                          | 7.1<br>RECEIPT INSPECTION C<br>AT THE PLANT SITE                                  | F ITEMS                               | Provides instructions for reco<br>materials, parts and compone<br>obtained for usein-nuclear-<br>operating-plant site. | eipt-inspection-of-<br>onts-which have been<br>safety-applications-at-the               |
|                          | 7.3<br>CANCELLED                                                                  |                                       |                                                                                                                        |                                                                                         |
|                          | 7.4<br>EVALUATION OF SUPPL<br>SAFETY RELATED ITEM<br>SERVICES<br>7.5<br>CANCELLED | IERS OF                               | Provides-standards, measure<br>the evaluation of QA Program<br>or-suppliers-supplying-items-                           | <del>s, and guidelines for-<br/>ns of contractors</del><br><del>or services.</del>      |
|                          | 7 <del>.6</del><br>ACCEPTANCE OF ITEMS                                            | -AND SERVICES                         | Describes-the-responsibilitic<br>accepting-nuclear safety-relat<br>are-being-procured-for-nuclea                       | es and-requirements for<br>red items or services that<br>ar power plants.               |
|                          | CANCELLED                                                                         |                                       |                                                                                                                        |                                                                                         |
|                          | <del>7.9</del><br><del>CONTROL OF ON SITE S</del>                                 | ERVICES                               |                                                                                                                        | stem to assure that<br>Services by contract or<br>uslear-power-plants-are               |
|                          | 8.1<br>IDENTIFICATION AND C<br>ITEMS AT THE PLANT SI                              | ONTROL OF                             | — Delineates measures for assur<br>— identification and control of it<br>time they are received thro<br>plants.        | <del>ring traceability,-</del><br>t <del>ems from the-</del><br>ugh-usage-at-operating- |
| Rev.1/89                 | 8.2<br>CANCELLED                                                                  |                                       |                                                                                                                        |                                                                                         |
| orm 2719 (Non - Stocked) | 9.1<br>CONTROL OF SPECIAL P                                                       | ROCESSES                              | Delineates-the-responsibilitie<br>personnel,-and-the-control<br>special-processes-that-are-a<br>items.                 | es of organizations and<br>and documentation of<br>pplied to safety related             |

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|                                                        | TOPICAL QUAL   | ITY ASSURANCE REPORT                                                                         | APPENDIX E                                                                    |
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|                                                        |                | · · · · · · · · · · · · · · · · · · ·                                                        | Rev. 18 - DEL                                                                 |
|                                                        | LIST OF CO     | ORPORATE QUALITY<br>NCE PROCEDURES                                                           | Date 11/16/93                                                                 |
| FPL                                                    |                |                                                                                              | Page 6 of 9                                                                   |
|                                                        |                |                                                                                              |                                                                               |
| OP_NUMBER/TITLE                                        |                | SECTION DESCRIPTION                                                                          | 28                                                                            |
| 9.2<br>CANCELLED<br>(Combined with 9.1)                |                |                                                                                              |                                                                               |
| 9.4<br><del>CONTROL OF WELDIN<br/>POWER PLANTS -</del> | G FOR NUCLEAR- | Delineates responsibilities an<br>control FPL -welding-proce<br>plants.                      | nd-requirements-for<br>csses-for-nuclear-powe                                 |
| <del>10.1</del><br>CANCELLED                           |                | ٩                                                                                            |                                                                               |
| 10.2<br>CANCELLED                                      |                | -                                                                                            |                                                                               |
| <del>10.3</del><br>INSPECTION AND SUR                  | VEILLANCE-     | Delineates responsibilities-a<br>inspection-and-surveillance<br>maintenance-activities, oper | nd-requirements-for-the<br>of-safety-related-plan<br>ration-of-safety-related |
| <del>10.4</del><br>CANCELLED                           |                | <del>systems, and tuel-nandling a</del>                                                      | <del>CIIVIII05.</del>                                                         |
| <sup>-10.5</sup><br>CANCELLED                          | ,              | ¢                                                                                            |                                                                               |
| 10.6<br>CANCELLED                                      |                |                                                                                              | ×                                                                             |
| <del>11.1</del><br>CANCELLED<br>(Combined-with-11.4)   |                |                                                                                              |                                                                               |
| <del>11.2</del><br>CANCELLED<br>(Combined-with-11.4)   |                |                                                                                              |                                                                               |
| <del>11.3</del><br>CANCELLED<br>(Combined-with-11.4)   |                |                                                                                              |                                                                               |
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|                                                                           | TOPICAL QUALIT                        | <b>FY ASSURANCE REPORT</b>                                                                                                                                                                        | APPENDIX E                                                                                                                                                        |
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|                                                                           |                                       |                                                                                                                                                                                                   | Rev. 18 - DEL                                                                                                                                                     |
|                                                                           | LIST OF COI<br>ASSURAN                | RPORATE QUALITY<br>CE PROCEDURES                                                                                                                                                                  | Date 11/16/93                                                                                                                                                     |
| FPL                                                                       |                                       |                                                                                                                                                                                                   | Page 7 <sub>of</sub> 9                                                                                                                                            |
| OP-NUMBER/TITLE                                                           | · · · · · · · · · · · · · · · · · · · | -SECTION DESCRIPTIC                                                                                                                                                                               | <u>)N</u>                                                                                                                                                         |
| ' <del>11.4</del><br><del>TEST CONTROL</del>                              | •                                     | Defines the measures for control<br>to installation, construction<br>tests, startup tests, operate<br>following repairs, replacement<br>nuclear safety related systements.                        | ntrol of proof tests prior<br>on tests, preoperational<br>tional-tests and retests<br>onts or modifications for<br>stems, structures, and                         |
| 12.1<br>CALIBRATION AND CON<br>MEASURING AND TEST                         | VTROL OF<br>EQUIPMENT                 | – Delineates the responsibilitier<br>described program for main<br>control of measuring and test                                                                                                  | 5-for-implementing-the-<br>stenance, calibration-and-<br>cquipment (M&TE).                                                                                        |
| <del>12.2</del><br>CALIBRATION-CONTRO<br>PLANT-INSTRUMENTAT<br>EQUIPMENT- | L OF INSTALLED<br>ION AND CONTROL     |                                                                                                                                                                                                   | <del>gram, delineates-</del><br>t <del>es procedures for</del><br>of-install instrumentation                                                                      |
| <del>13.1</del><br>HANDLING, STORAGE /<br><del>OF ITEMS</del>             | AND-SHIPPING                          | Establishes responsibilities ar<br>that-measures-are-employed-<br>to: (1)-control-the-handling,<br>material; (2)-protect-the-qual<br>proper-handling, shipping,<br>(3), effectively control-the-d | nd procedures to assure<br>by FPL and contractors<br>shipping and storage of<br>lity of material by using<br>and storage techniques;<br>lisposition of discrepant |
| <del>13.2</del><br>CANCELLED                                              |                                       | noms.                                                                                                                                                                                             | •                                                                                                                                                                 |
| <del>13.3</del><br>CANCELLED<br>(Combined-with-13.1)                      |                                       |                                                                                                                                                                                                   | -<br>1                                                                                                                                                            |
| 14.1<br>CANCELLED<br>(Combined with 14.3)                                 |                                       |                                                                                                                                                                                                   |                                                                                                                                                                   |
| CANCELLED<br>(Combined with 14.3)                                         |                                       |                                                                                                                                                                                                   |                                                                                                                                                                   |
| m 2719 (Non - Stc                                                         |                                       |                                                                                                                                                                                                   | n                                                                                                                                                                 |

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# **TOPICAL QUALITY ASSURANCE REPORT**

# LIST OF CORPORATE QUALITY ASSURANCE PROCEDURES

|      | APPENDI         | ΧĘ |
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| Date | 11/16/9         | 93 |
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#### **OP NUMBER/TITLE**

### SECTION DESCRIPTION

#### 14.3

INSPECTION, TEST AND OPERATING STATUS DURING-PLANT-OPERATION Defines the measures and responsibilities for the identification of the inspection, test and operating status of structures, systems, and components.

# 15.1

CANCELLED (Combined with 15.2)

# 15.2

| 10.0                            |                                                        |
|---------------------------------|--------------------------------------------------------|
| CONTROLOENONCONFORMING          | Defines the objectives and responsibilities for        |
| CONTROL OF TROMCOME ORDERING    | Donnes no objectives una responsionnes ror-            |
| MATERIALS PARTS COMPONENTS      |                                                        |
|                                 |                                                        |
| AND SERVICES FOR ST LUCIE PLANT | in-order-to-prevent-their-inadvertent-use_installation |
|                                 | in order to provont mon madvortent abo, mountain       |
|                                 | or application to St. Lucie nuclear nower plant.       |
|                                 | or-upproduction to bit is able indefed power-plum.     |

## <del>15.3</del>

| CONTROLOFNONCONFORMING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| MATERIALS PARTS COMPONENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| - THE CONTRACTOR OF THE OTHER THE OT |
| AND SEDVICES FOD THEKEY DOINT DLANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

16.1 CORRECTIVE ACTION Defines the objectives and responsibilities for controlling nonconforming items or services in-order-to-prevent their inadvertent use, installation or application to Turkey Point nuclear power plant.

Establishes the respective responsibilities of FPL personnel and the procedure for assuring that conditions identified by the FPL QA Department as being adverse to quality, are corrected.

16.2 CANCELLED (Combined with 16.1)

16.3 CANCELLED (Combined with 16.1)

<del>16.4</del>

| EVALUATING AND REPORTING DEFECTS     | Specifies the measures and responsibilities within |
|--------------------------------------|----------------------------------------------------|
| E THEOTHING THE TOP OF ECTO          |                                                    |
| AND FAILLIPE TO COMPLY FOR           | Elorida Power & Light to accura compliance to      |
| THE THEORE TO COMPETION              | Tionda Towor & Eigneto assure compnance to         |
| <u>CLIRCTANTIAL CAFETY HAZADDCIN</u> | $10.CEP_{Dart} 21_{dart}$                          |
|                                      | 10 CI ICI III DIT                                  |
| ACCORDANCE WITH 10 CEP DAPT 21       |                                                    |
|                                      |                                                    |

16.6 CANCELLED

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|------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
|                                                |                           |                                                                                                          | Rev. 18 - DEL                                                                |
|                                                | LIST OF CO<br>ASSURAN     | LIST OF CORPORATE QUALITY                                                                                |                                                                              |
| FPL                                            |                           |                                                                                                          | Page 9 of 9                                                                  |
| OP-NUMBER/TITLE                                |                           | <u>SECTION DESCRIPT</u>                                                                                  | <u>ION</u>                                                                   |
| <del>17.1</del><br>QUALITY ASSURANCI           | <del>E-RECORDS</del><br>j | <del>Identifies-records-and-<br/>substantiate-quality; ar<br/>employed-for-their-ma<br/>retrieval.</del> | -documents-required-to<br>td,-describes-measured<br>intenance,-retention-and |
| <del>18.1</del><br>PERFORMANCE OF QU<br>AUDITS | JALITY-ASSURANCE          | Provides instructions for c<br>Quality Assurance Program                                                 | onducting audits of FPL-<br>ractivities.                                     |
| <del>18.2</del><br>CANCELLED                   |                           |                                                                                                          |                                                                              |
| <del>18.3</del><br>CANCELLED                   |                           |                                                                                                          |                                                                              |
| <del>18.4</del><br>CANCELLED                   |                           |                                                                                                          |                                                                              |
|                                                | <u>is</u> .               | · · ·                                                                                                    | 4                                                                            |
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|                                                             |                                                                                                                                      | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                |                                                     |                                                               |
|                                                             |                                                                                                                                      |                                                                                                                                                                                                                                         | Rev.                                                | 17 Draft B                                                    |
|                                                             |                                                                                                                                      | GLOSSARY                                                                                                                                                                                                                                | Date                                                | 11/8/93                                                       |
|                                                             |                                                                                                                                      |                                                                                                                                                                                                                                         | Page                                                | 1 of 42                                                       |
| 5.0                                                         | DEFINITIONS:                                                                                                                         | (Cont'd)                                                                                                                                                                                                                                |                                                     |                                                               |
| 1.0                                                         | APPROVAL:                                                                                                                            |                                                                                                                                                                                                                                         |                                                     |                                                               |
|                                                             |                                                                                                                                      | Vice President Nuclear Assurance                                                                                                                                                                                                        |                                                     |                                                               |
| 2.0                                                         | PURPOSE:                                                                                                                             |                                                                                                                                                                                                                                         |                                                     |                                                               |
| * =<br>#                                                    | This glossary provi<br>activities <del>during the</del>                                                                              | ides terms that are used by FPL personnel in the p design, construction and operation of for nuclear po                                                                                                                                 | erformanc<br>wer plants                             | e of Quality                                                  |
| 3.0                                                         | SCOPE:                                                                                                                               |                                                                                                                                                                                                                                         |                                                     |                                                               |
|                                                             | The terms and defi<br>manual and in docu                                                                                             | nitions appearing in this compilation apply to those mentation resulting from FPL Quality Program activit                                                                                                                               | e that are<br>ies.                                  | used in this                                                  |
| 4.0                                                         | RESPONSIBILI                                                                                                                         | <u>ГY</u> :                                                                                                                                                                                                                             |                                                     |                                                               |
|                                                             | It is the responsibili<br>It is the responsibili                                                                                     | ty of the Quality Manager Juno Beach to maintain and<br>ty of the user to ascertain that these definitions are app                                                                                                                      | d update tl<br>propriate.                           | nis glossary.                                                 |
| 5.0                                                         | <b>DEFINITIONS</b> :                                                                                                                 |                                                                                                                                                                                                                                         |                                                     |                                                               |
| Abnor                                                       | mal Occurrence                                                                                                                       | An unscheduled incident or event which the significant from the standpoint of public health or                                                                                                                                          | NRC de safety.                                      | termines is                                                   |
| Accept                                                      | ance                                                                                                                                 | The act of assenting to ownership of an item, s conforming to specified requirements.                                                                                                                                                   | tructure o                                          | r service as                                                  |
| Accept<br>Criteria                                          | ance<br>a                                                                                                                            | A limit or limits placed on the variation permitted i<br>an item expressed in definitive engineering terms<br>tolerances, chemical composition limits, density<br>temperature ranges, time limits, operating parame<br>characteristics. | n the chara<br>s such as<br>and size<br>ters, and c | acteristics of<br>dimensional<br>of defects,<br>other similar |
| FOOT<br>(1) - A<br>(2) - Q<br>(3) - A<br>(4) - A<br>(5) - N | <u>NOTE</u> :<br>NSI 45.2.10 Definit<br>A Manual Appendix (<br>NSI N.18.7 Definition<br>NSI NQA-1 Definition/<br>SAC 125 Definition/ | ion<br>C Definition<br>on<br>on<br>Excerpt                                                                                                                                                                                              |                                                     | ×                                                             |

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|                                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          |
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|                                           | GLOSSARY                                                                                                                                                                                                                                                                                                                      | Date 11/8/93                                                                                                                                             |
| FPL                                       |                                                                                                                                                                                                                                                                                                                               | Page 2 of 42                                                                                                                                             |
| 5.0 <u>DEFINITIONS</u> :                  | (Cont'd)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          |
| Accepted Industry<br>Standard<br>Accuracy | A standard established by a group representing of<br>industry who normally are those engaged in<br>standard is "accepted" by the responsible organ<br>AGMA - American Gear Manufacturers Associa<br>Institute of Steel Construction, AISE - Associa<br>Engineers.<br>The degree of conformity of a measured value t<br>value. | lifferent members of an<br>manufacturing. This<br>ization. Examples are:<br>ation, AISC - American<br>ation of Iron and Steel<br>to an accepted standard |
| Activity Audits                           | <sup>7</sup> Performed supplemental to Program Audit<br>development and/or implementation of sp<br>plants/departments in accordance with Quality<br>implementing procedures. Activity Audits may<br>series of such audits will verify the development<br>a portion of the Quality Assurance Program.                          | to verify procedure<br>pecific activities by<br>Instructions or other<br>y be planned so that a<br>and implementation of                                 |
| Analysis                                  | • A process of mathematical or other logical reas<br>stated premises to the conclusion concerning s<br>equipment and its adequacy for a particular applic                                                                                                                                                                     | soning that leads from specific capabilities of cation.                                                                                                  |
| (1)Approval                               | An act of endorsing or adding positive authorizat                                                                                                                                                                                                                                                                             | ion, or both.                                                                                                                                            |
| Approved As-Built<br>Marked Up Drawings   | Drawings marked up per plant change/modificat<br>Nuclear Engineering and field checked by N<br>drawings have received proper review and are<br>from Nuclear Energy and Nuclear Engineering.                                                                                                                                   | tion documentation by<br>Juclear Energy. The<br>approved by signature                                                                                    |
| Approved Inspector (AI)                   | See "Inspector" (State or Code)                                                                                                                                                                                                                                                                                               |                                                                                                                                                          |
| (1)Appurtenance                           | A part that is attached to a component which has b                                                                                                                                                                                                                                                                            | been completed.                                                                                                                                          |
| As-Built                                  | The plant configuration after implementation construction or plant change, as approved by Nuc                                                                                                                                                                                                                                 | of any specific plant<br>lear Engineering.                                                                                                               |
| (1) As-Built Data                         | Documented data that describes the condition a product.                                                                                                                                                                                                                                                                       | actually achieved in a                                                                                                                                   |
| As Constructed                            | The plant configuration after implementation construction or plant change.                                                                                                                                                                                                                                                    | of any specific plant                                                                                                                                    |
|                                           | •                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                          |
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|                                                                                                                  |                      | GLOSSARY                                                                                                                                                                                                                                                                                                                               | Rev.                                                                          | 17 Di                                                                  | raft B                               |
|                                                                                                                  |                      |                                                                                                                                                                                                                                                                                                                                        | Date                                                                          | 11/8/                                                                  | /93                                  |
|                                                                                                                  | FPL                  |                                                                                                                                                                                                                                                                                                                                        | Page                                                                          | 3 of                                                                   | 42                                   |
| 5.0                                                                                                              | <b>DEFINITIONS</b> : | (Cont'd)                                                                                                                                                                                                                                                                                                                               |                                                                               |                                                                        |                                      |
| (2) A                                                                                                            | ssembly              | A combination of subassemblies or components or to form a workable unit.                                                                                                                                                                                                                                                               | both, fitt                                                                    | ted toget                                                              | her                                  |
| (2) A                                                                                                            | ůdit                 | A documented activity performed in accordance with<br>or checklists to verify, by examination and eva<br>evidence, that applicable elements of the Quality<br>have been developed, documented and effective<br>accordance with specified requirements. An auto<br>surveillance or inspection for the purpose of procest<br>acceptance. | h written<br>aluation c<br>Assurand<br>/ely imple<br>dit does a<br>ss control | procedu<br>of object<br>ce Progra<br>emented<br>not inclu<br>l or prod | res<br>ive<br>am<br>in<br>ide<br>uct |
| Audi                                                                                                             | table Justification  | When compliance to 10 CFR 50.49 requirements<br>technical evaluation is provided to demonstrate that<br>the required quality related function when subjected<br>CFR 50.49 harsh environmental conditions.                                                                                                                              | s is not o<br>the item o<br>l to the ar                                       | complete<br>can perfo<br>oplicable                                     | e, a<br>rm<br>10                     |
| Audi                                                                                                             | t Finding            | Deviation from specified audit criteria which is evidence.                                                                                                                                                                                                                                                                             | based or                                                                      | n objecti                                                              | ive                                  |
| Audi                                                                                                             | tor                  | Any individual who participates in an audit, including lead auditors,<br>technical specialists and others such as management representatives and<br>auditors in training.                                                                                                                                                              |                                                                               |                                                                        |                                      |
| Audi<br>Plan                                                                                                     | t Program<br>(APP)   | Developed in accordance with department ins<br>coverage of all activities required by license commit<br>in the audit program and to demonstrate that this<br>achieved.                                                                                                                                                                 | tructions<br>ments to l<br>coverag                                            | to assu<br>be includ<br>e has be                                       | ire<br>led<br>en                     |
| Augn                                                                                                             | nented Quality       |                                                                                                                                                                                                                                                                                                                                        |                                                                               |                                                                        |                                      |
| Class                                                                                                            | ification (PC-3)     | 1. PC-3 items and services are not subject to supplier.                                                                                                                                                                                                                                                                                | 10CFR                                                                         | 21 by 1                                                                | he                                   |
|                                                                                                                  |                      | <ol> <li>This classification may be applied to any iter<br/>subject to non-safety related regulatory requirements imposed by FPL, which inclusion<br/>services defined as quality related.</li> </ol>                                                                                                                                  | m or serv<br>irements<br>de those                                             | vice that<br>or spec<br>items a                                        | is<br>ial<br>nd                      |
|                                                                                                                  |                      | NOTE: Basic components cannot be procured PC-                                                                                                                                                                                                                                                                                          | -3.                                                                           |                                                                        |                                      |
| Avail                                                                                                            | ability              | The characteristic of an item expressed by the prob<br>operational at a randomly selected future instant in ti                                                                                                                                                                                                                         | ability tha<br>me.                                                            | t it will                                                              | be                                   |
| Backfit Work-performed-at an operating plant under the direction of the N<br>Construction Services organization. |                      | he-Nucle                                                                                                                                                                                                                                                                                                                               | yar-                                                                          |                                                                        |                                      |
|                                                                                                                  |                      | · · · ·                                                                                                                                                                                                                                                                                                                                |                                                                               |                                                                        |                                      |
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|                                                                                                                                                | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                      | Date 11/8/93                                                                                                                                                   |  |
| FPL                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                               | Page 4 of 42                                                                                                                                                   |  |
| 5.0 <b>DEFINITIONS</b> :                                                                                                                       | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                |  |
| Backfitting                                                                                                                                    | Backfitting is defined as the modification<br>systems, structures, components, or desig<br>the design approval for a facility; or the<br>organization required to design, constru-<br>facility; any of which may result from a<br>provision in the NRC rules or the<br>regulatory staff position interpreting the h<br>either new or different from a previously<br>position. | of or addition to<br>n of a facility; or<br>he procedures or<br>uct or operate a<br>new or amended<br>imposition of a<br>NRC rules that is<br>applicable staff |  |
| Basic Components                                                                                                                               | Those components, structures, and equipment, as well as their associated design, testing, inspection, and consulting services which are nuclear safety related. See Safety Related.                                                                                                                                                                                           |                                                                                                                                                                |  |
| Bid Package                                                                                                                                    | Proposal by prospective contractor/supplier in response to a request for<br>bid. It includes exceptions to requirements stated in drawings,<br>specifications, codes, standards, quality and other requirements<br>incorporated in or referenced in the request for bid.                                                                                                      |                                                                                                                                                                |  |
| Blanket Purchase<br>Order (BPO)                                                                                                                | A Purchase Order issued to a firm to supply specified items or servic<br>to FPL for a specified period of time on an "as requested" bas<br>Specific Items or Services are requested to be delivered or supplied<br>use of a Delivery and Work Authorization (DWA) form which delinea<br>the specific scope of work.                                                           |                                                                                                                                                                |  |
| Blanket Purchase<br>Order Release<br>(BPOR)                                                                                                    | A release or authorization to a supplier who holds<br>Order to provide specific items as defined in th<br>Order. This is a PMIS generated document.                                                                                                                                                                                                                           | a Blanket Purchase<br>ne Blanket Purchase                                                                                                                      |  |
| Break-In Period That early period, beginning at some stated time, duri failure rate of some items is decreasing rapidly; also failure" period. |                                                                                                                                                                                                                                                                                                                                                                               | e, during which the<br>; also called, "early                                                                                                                   |  |
| Calibration                                                                                                                                    | Comparison of an item of Measuring and Test Equipment (M&TE) with<br>a reference standard or item of M&TE of equal or closer tolerances to<br>detect and quantify inaccuracies and to report and eliminate those<br>inaccuracies by adjustment.                                                                                                                               |                                                                                                                                                                |  |
| Carrier                                                                                                                                        | The transporting agency.                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                |  |
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|                            |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rev. 17 Draft B                                 |  |  |  |
|                            |                                  | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date 11/8/93                                    |  |  |  |
|                            | FPL                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Page 5 of 42                                    |  |  |  |
| ſ                          | 5.0 <b>DEFINITIONS</b> :         | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |  |  |  |
|                            |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | x                                               |  |  |  |
|                            | (1)Certificate of<br>Compliance  | A written statement, signed by a qualified party, attesting that the items<br>or services are in accordance with specified requirements and<br>accompanied by additional information to substantiate the statement.                                                                                                                                                                                                                                                                                                                                                                                                |                                                 |  |  |  |
|                            | (1)Certificate of<br>Conformance | A written statement, signed by a qualified party, ce<br>services comply with specific requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ertifying that items or                         |  |  |  |
|                            | (1)Certification                 | The action of determining, verifying and attesting, in writing, to the qualifications of personnel or material; i.e, a written testimony of qualification.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |  |  |  |
|                            | Certified Personnel              | <ul> <li>Persons who are periodically certified by their respective employers as being qualified to perform assigned work. Certification is substantiated by documentation that verifies education or training, testing, evaluation and periodic review to assure initial and continuing proficiencies.</li> <li>Documentation provided by and approved by Nuclear Energy or FPL Construction, to provide objective evidence as to the as-constructed configuration.</li> <li>Standards of measurement whose accuracy can be traced to standards at the National Institute of Standards and Technology.</li> </ul> |                                                 |  |  |  |
|                            | Certified As-Constructed         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |  |  |  |
|                            | Certified Standards              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |  |  |  |
|                            | (1)Certified<br>Test Report      | A written and signed document, approved by a contains sufficient data and information to verify the items and the actual results of all required tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | qualified party, that<br>e actual properties of |  |  |  |
|                            | Channel                          | An arrangement of components and modules as required to generate a single protective action signal when required by a generating station condition. A channel loses its identity where single action signals are combined.                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |  |  |  |
| v.1/89                     | (1)Characteristic                | Any property or attribute of an item, process, or service that is distinct,<br>describable, and measurable, as conforming or nonconforming to<br>specified quality requirements. Quality characteristics are generally<br>identified in specifications and drawings which describe the item,<br>process, or service.                                                                                                                                                                                                                                                                                               |                                                 |  |  |  |
| 1 - Stocked) R             | (1)Checks                        | The tests, measurements, verifications or controls placed on an activity<br>by means of investigations, comparisons, or examinations to determine<br>satisfactory condition, accuracy, safety or performance.                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |  |  |  |
| <sup>-</sup> orm 2719 (Nor | Chemical Conditioning            | The addition of chemicals to flush, rinse, or layup water to prevent precipitation of dissolved solids, inhibit corrosion, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |  |  |  |

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|                                     | GLOSSARY                                                                                                                                                                                                                                                                                                                                              | Date                                                                    | 11/8/93                                                                                |  |  |
| FPL                                 |                                                                                                                                                                                                                                                                                                                                                       |                                                                         | 6 of 42                                                                                |  |  |
| 5.0 <u>DEFINITIONS</u> :            | (Cont'd)                                                                                                                                                                                                                                                                                                                                              |                                                                         |                                                                                        |  |  |
| Class IE                            | The safety classification of the electric equipment and systems that are<br>essential to emergency reactor shutdown, containment isolation, reactor<br>core cooling, and containment and reactor heat removal, or otherwise<br>essential in preventing significant release of radioactive material to the<br>environment.                             |                                                                         |                                                                                        |  |  |
| Class I Structures<br>and Equipment | Structures and equipment that are essential to the safe shutdown and isolation of the reactor or whose failure or damage could result in a                                                                                                                                                                                                            |                                                                         |                                                                                        |  |  |
|                                     | significant release of radioactive material.                                                                                                                                                                                                                                                                                                          |                                                                         |                                                                                        |  |  |
| and Equipment                       | Structures and equipment that are important to reactor operation but are<br>not essential to the safe shutdown and isolation of the reactor, and<br>whose failure cannot result in a significant release of radioactive<br>material.                                                                                                                  |                                                                         |                                                                                        |  |  |
| Cleaning                            | The removal of any contaminants that might have a deleterious effect on safe and reliable operation of the plant.                                                                                                                                                                                                                                     |                                                                         |                                                                                        |  |  |
| (1)Cleanness                        | A state of being clean in accordance with predetermined standards, and<br>usually implies freedom from dirt, scale, heavy rust, oil or other<br>contaminating impurities.                                                                                                                                                                             |                                                                         |                                                                                        |  |  |
| Code                                | A recognized standard to be followed when using or processing materials, or for specifying the skills involved when using or processing materials.                                                                                                                                                                                                    |                                                                         |                                                                                        |  |  |
| Code Classes                        | The ASME Boiler and Pressure Vessel Code, Section III, "Rules for<br>Construction of Nuclear Power Plant Components," has four<br>classifications: Code Classes 1,2, and 3 for fluid system components<br>covered by the Code, and MC for reactor containment components.<br>These classifications specify design and quality assurance requirements. |                                                                         | , "Rules for<br>" has four<br>components<br>components.<br>quirements.                 |  |  |
| Cognizant Engineer                  | The engineer (or engineering organization) assigned task or responsibility to design, install or document system.                                                                                                                                                                                                                                     | ed Engin<br>an item,                                                    | neer specific<br>structure or                                                          |  |  |
| Commencement of<br>Construction     | Any clearing of land, excavation, or other substant<br>adversely affect the natural environment of a site is<br>changes desirable for the temporary use of the<br>recreational uses, necessary borings to determine to<br>other preconstruction monitoring to establish back<br>related to the suitability of a site or to the protectival<br>values. | ial-action<br>out-does<br>he-land-<br>ite-chara<br>cground-<br>on-of-en | that-would<br>not-include<br>for public<br>eteristics-or<br>information<br>vironmental |  |  |
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|                   |                                                   | GLOSSARY                                                                                                                                                                                                                                                                                                                     | Date                                                               | 11/8/93                                                                 |
|                   | FPL                                               |                                                                                                                                                                                                                                                                                                                              | Page                                                               | 7 of 42                                                                 |
| 5.                | 0 <b>DEFINITIONS</b> :                            | (Cont'd)                                                                                                                                                                                                                                                                                                                     |                                                                    | ,<br>,                                                                  |
| (4                | Commercial<br>) Grade Item                        | An item that is (1) not subject to design or specific<br>that are unique to facilities or activities licensed by<br>used in applications other than facilities or activing<br>NRC, and (3) to be ordered from the manufacturer<br>of specifications set forth in the manufacturer's<br>description (for example, a catalog). | fication re<br>by the NR<br>vities licer<br>/supplier<br>s publish | equirements<br>RC, and (2)<br>nsed by the<br>on the basis<br>ed product |
| C                 | ommon Failure Mode                                | A mechanism by which a single design basis event<br>equipment to be inoperable.                                                                                                                                                                                                                                              | can caus                                                           | e redundant                                                             |
| Ci<br>Ri<br>(1    | ompany Nuclear<br>eview Board<br>CNRB)            | A group established to assist Company Managen nuclear generating facilities are operated and main with NRC license requirements.                                                                                                                                                                                             | nent in as<br>tained in                                            | suring that compliance                                                  |
| Co<br>Qi<br>Re    | ompletely Filled Out<br>uality Assurance<br>scord | A Quality Assurance Record is completely filled necessary or normal parts, elements, or steps; it lack                                                                                                                                                                                                                       | out whe<br>ks nothing                                              | n it has all<br>gessential.                                             |
| (1)               | , Component                                       | A piece of equipment such as a vessel, piping, p<br>support structure, which will be combined with<br>form an assembly.                                                                                                                                                                                                      | oump, val<br>other com                                             | lve or core<br>ponents to                                               |
|                   | omponent Identification<br>umber                  | An identification number assigned to an item for lifetime.                                                                                                                                                                                                                                                                   | r use thro                                                         | oughout its                                                             |
| Co                | omputer Program                                   | A sequence of instructions suitable for processing Processing may include the use of an assemb interpreter, or a translator to prepare the program for                                                                                                                                                                       | ing by a<br>ler, a co<br>r executio                                | computer.<br>ompiler, an<br>on.                                         |
| Stocked) Rev.1/89 | omputer Software                                  | Computer programs, procedures, rules, and p<br>documentation and data pertaining to the opera<br>system.                                                                                                                                                                                                                     | possibly<br>tion of a                                              | associated<br>computer                                                  |
| orm 2719 (Non - : |                                                   |                                                                                                                                                                                                                                                                                                                              |                                                                    |                                                                         |

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|                             |                                  | GLOSSARY                                                                                                                                                                                                                                                                                                                                                 | Date 11/8/93                                                                                                                                     |
|                             | FPL                              |                                                                                                                                                                                                                                                                                                                                                          | Page 8 of 42                                                                                                                                     |
|                             | 5.0 <b>DEFINITIONS</b> :         | (Cont'd)                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |
|                             | Conditions Adverse<br>To Quality | Failures, malfunctions, deficiencies or deviati<br>equipment and other nonconformances which are<br>action to correct the immediate condition only. Suc<br>conditions do not require engineering evaluation or<br>10 CFR 50.55(e), 10 CFR 50.73, or 10 CFR 21 de                                                                                         | ons in material and<br>corrected by taking<br>th nonconforming<br>are not reportable as<br>efficiencies.                                         |
| ,                           | Condition Report                 | A nonconformance reporting document us<br>nonconformances at PTN including nonconforr<br>cannot be made acceptable utilizing existing design<br>requiring engineering disposition.                                                                                                                                                                       | ed for processing<br>ning conditions that<br>in documents thereby                                                                                |
|                             | Configuration                    | The physical arrangement of components, systems                                                                                                                                                                                                                                                                                                          | and structures.                                                                                                                                  |
|                             | Configuration Control            | Measures taken to assure that the physical arrang<br>systems and components are compatible with the<br>those structures, systems and components.                                                                                                                                                                                                         | tement of structures, he documentation of                                                                                                        |
|                             | Configuration<br>Documentation   | Current and applicable documentation of the phy structures, systems and components.                                                                                                                                                                                                                                                                      | visical arrangement of                                                                                                                           |
|                             | Confirming Purchase Order        | A written purchase order issued to a supplier as a co-<br>commitment to buy item(s) or services. The orally<br>a commitment to purchase when a P.O. number is g<br>The written (confirming) order must bear the ide<br>and have a reference that shows it to be a confirmi-<br>technical and quality requirements stated orally sha<br>confirming order. | onfirmation to an oral<br>stated order becomes<br>given to the supplier.<br>infield P.O. number<br>ing order. The same<br>Il be specified on the |
|                             | Conforming Characteristic        | A characteristic of an item whose measured value limits.                                                                                                                                                                                                                                                                                                 | lies within specified                                                                                                                            |
| 19 (Non - Stocked) Rev.1/89 | Consensus Standard               | A standard established by a group representing a<br>particular industry or trade or a part thereof. A c<br>those who purchase or use products of the industr<br>those who produce these products. Examples are<br>Standards Institute, American Society of Me<br>American Society for Testing and Materials, Instit<br>Electronic Engineers.             | a cross section of a<br>ross section includes<br>y or trade as well as<br>American National<br>chanical Engineers,<br>tute of Electrical and     |
| Form 27.                    |                                  |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                  |

|                                        | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                   |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
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|                                        | GLOSSARY                                                                                                                                                                                                                   | Date                                                | 11/8/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                     |
| FPL                                    |                                                                                                                                                                                                                            | Page                                                | 9 of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 42                     |
| 5.0 <b>DEFINITIONS</b> :               | (Cont'd)                                                                                                                                                                                                                   |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Construction Phase                     | Includes those construction activities that occur<br>Construction Permit to issuance of the Opera<br>permitted projects. Also, from start of physi<br>system acceptance turnover for inplant projects.                     | from iss<br>ting Licer<br>cal imple                 | uance of the set of th | the<br>ge<br>to        |
| Construction Tests                     | Those tests (including "flushes and hydros") that<br>construction phase and are necessary to verify<br>each component of a system is complete an<br>applicable specifications, standards, codes, draw<br>information.      | at are mad<br>that the ir<br>id compl<br>vings, and | le during t<br>istallation<br>ies with<br>lengineeri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | the<br>of<br>the<br>ng |
| Construction Work<br>Order (CWO)       | The release and authorization to perform specific voor system.                                                                                                                                                             | work on a                                           | specific ite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | em                     |
| (1) Containment                        | The principal design feature of a nuclear power ge<br>provided for the specified purpose of preventing t<br>conditions of a reactor accident, of unacceptable q<br>material beyond a controlled zone.                      | enerating s<br>the release<br>uantities o           | tation that<br>, even unc<br>f radioacti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t is<br>ler<br>ve      |
| Contaminants                           | Foreign materials such as mill scale, dirt, oil, che<br>that renders a fluid, solid or surface impure and<br>preset standards of acceptable cleanness.                                                                     | micals, an<br>l unclean                             | d any mat<br>according                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ter<br>to              |
| Contract (Involving<br>Purchase Order) | A binding agreement between two or more person                                                                                                                                                                             | s or comp                                           | anies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |
| Contract Change<br>Order (CCO)         | A serially numbered (preprinted) document, we executed, authorizes required contract scope char the Nuclear Materials Management Department supplement or amendment to an existing contract.                               | which wh<br>1ges or giv<br>tof the                  | en proper<br>ves notice<br>need for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | to<br>a                |
| (1) Contractor                         | Any organization under contract for furnishing includes the terms A/E, NSSS, Vendor, Sup Fabricator and Subtier levels of these where appro                                                                                | items or<br>oplier, Su<br>priate.                   | services.<br>bcontracto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | It<br>or,              |
| Controlled Area                        | A specified area in which exposure of perso<br>radioactive material is controlled and which is und<br>person who has knowledge of the appropriate<br>practices, including pertinent regulations, and who<br>applying them. | onnel to a<br>er the sup<br>radiation<br>has respo  | radiation<br>ervision of<br>protection<br>prosibility f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | or<br>fa<br>on<br>or   |
|                                        |                                                                                                                                                                                                                            |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
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|                       |                          | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                             |                                                                  |                                                                   |                      |
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|                       |                          | GLOSSARY                                                                                                                                                                                                                                                                                                                                             | Date                                                             | 11/8/9                                                            | 3                    |
|                       | FPL                      |                                                                                                                                                                                                                                                                                                                                                      | Page                                                             | 10 of                                                             | 42                   |
|                       | 5.0 <b>DEFINITIONS</b> : | (Cont'd)                                                                                                                                                                                                                                                                                                                                             |                                                                  |                                                                   |                      |
| ;                     | Controlled Documents     | Controlled documents are defined as those docu<br>accountability and provide guidance, requiren<br>affecting quality such that lack of up-to-date r<br>quality. Controlled documents include docu<br>following:                                                                                                                                      | ments w.<br>ients, or<br>revisions<br>ments s                    | hich requi<br>instructio<br>may affe<br>uch as th                 | re<br>on<br>ct<br>ie |
|                       |                          | <ul> <li>a. design specifications,</li> <li>b. design, manufacturing, construction, and instal</li> <li>c. quality program manuals, procedures, and instr</li> <li>d. inspection, manufacturing, and test procedures</li> <li>e. plant operating and maintenance procedures,</li> <li>f. plant Safety Analysis Reports and related design</li> </ul> | lation dra<br>uctions,<br>and instr<br>n criteria                | twings,<br>uctions,<br>documents                                  | 5.                   |
|                       | Control Point            | In a sequential operation, a checkpoint at which consistent inspection made or approvals required.                                                                                                                                                                                                                                                   | ertain dat                                                       | a are take                                                        | n,                   |
| ) .                   | Corrective Action        | Action taken to correct a nonconforming condition w<br>on prevention of recurrence.                                                                                                                                                                                                                                                                  | ith specif                                                       | fic emphas                                                        | is                   |
|                       | Critical Design Review   | Evaluates the technical adequacy, completeness, ar<br>detailed design before the start of the actual coding.                                                                                                                                                                                                                                         | ıd correc                                                        | tness of th                                                       | le                   |
| ,                     | Curing                   | The process of maintaining a satisfactory moin<br>favorable temperature in concrete during hydration<br>materials so that desired properties of the concrete ar                                                                                                                                                                                      | sture con<br>of the c<br>e develop                               | ntent and<br>ementitiou<br>bed.                                   | a<br>IS              |
|                       | Dead Leg                 | Any area that does not have flow during the cleanin<br>cannot be drained without special provision.                                                                                                                                                                                                                                                  | g operatio                                                       | on or whic                                                        | h .                  |
|                       | Defect                   | 1. A deviation in a basic component delivered to a a facility or an activity subject to the regulation is on the basis of an evaluation the deviation could Safety Hazard; or                                                                                                                                                                        | purchase<br>in 10 CFI<br>d create a                              | er for use i<br>R Part 21 i<br>I Substantia                       | n<br>f,<br>al        |
| (89                   | ·                        | 2. The installation, use, or operation of a basic condefect as defined above; or                                                                                                                                                                                                                                                                     | nponent                                                          | containing                                                        | a                    |
| (Non - Stocked) Rev.1 | ,                        | 3. A deviation in a portion of a facility subject<br>permit or manufacturing licensing requirements<br>provided the deviation could, on the basis of an<br>Substantial Safety Hazard and the portion of th<br>the deviation has been offered to the purchaser f                                                                                      | t to the o<br>s of 10 C<br>n evaluation<br>facility<br>or accept | constructio<br>CFR Part 5<br>ion, create<br>containin<br>ance; or | n<br>O<br>a<br>g     |
| Form 2715             |                          |                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                                                   |                      |

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|                                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                        |                                                        |                                                        |             |
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|                                           |                                                                                                                                                                                                                                                                 | Rev.                                                   | 17 Draf                                                | τB          |
|                                           | GLOSSARY                                                                                                                                                                                                                                                        | Date                                                   | 11/8/93                                                | 3           |
| FPL                                       |                                                                                                                                                                                                                                                                 | Page                                                   | 11 of                                                  | 42          |
| 5.0 <b>DEFINITIONS</b> :                  | (Cont'd)                                                                                                                                                                                                                                                        |                                                        |                                                        |             |
|                                           | 4. A condition or circumstance involving a basic<br>contribute to the exceeding of a safety lin<br>technical specifications of a license for operat<br>10 CFR Part 50.                                                                                          | c compone<br>nit, as de<br>tion issued                 | nt that could<br>fined in the<br>pursuant to           | d<br>e<br>o |
| (1) Defective<br>Material                 | A material or component which has one or more channels not comply with specified requirements.                                                                                                                                                                  | aracteristic                                           | s that do                                              |             |
| Deficiency                                | An observed condition that is, or appears to be<br>beyond a defined or approved qualitative or que<br>criterion.                                                                                                                                                | adverse t<br>uantitative                               | o quality of<br>acceptance                             | r           |
| Delivery & Work<br>Authorization<br>(DWA) | The release and authorization to a supplier who hole<br>Order (BPO) to perform specific work or to pro-<br>defined in the Blanket Purchase Order.                                                                                                               | ds a Blank<br>vide speci                               | et Purchase<br>fic items as                            | S           |
| Design                                    | Technical and management processes which<br>identification of design input and which lead to an<br>of design output documents.                                                                                                                                  | ch comn<br>d include                                   | nence with<br>the issuance                             | 1           |
| Design Bases                              | That information which identifies the specific func-<br>by a structure, system, or component of a faci-<br>values, or ranges of values chosen for controlling p<br>bounds for design.                                                                           | ctions to be<br>ility, and<br>parameters               | e performed<br>the specific<br>as reference            |             |
| Design Basis<br>Earthquake (DBE)          | That earthquake which produces the maximum vib<br>that the nuclear power generating station is de<br>without functional impairment of those features n<br>the reactor, maintain the station in a safe condition<br>risk to the health and safety of the public. | bratory gro<br>signed to<br>ecessary to<br>on, and pro | ound motion<br>withstand,<br>o shutdown<br>event undue | 1           |
| Design Basis Event                        | A postulated abnormal event used in the design generating stations to establish the performance structures and systems of the station.                                                                                                                          | gn of nuc<br>requirem                                  | clear power<br>ents of the                             |             |
| Design Basis<br>Event Conditions          | Conditions calculated to occur as a result of the desi                                                                                                                                                                                                          | ign basis e                                            | vent.                                                  |             |
| Design Controls                           | Methods for assuring that basic design requirement<br>translated into design documents with proper rescheduled release of a valid design.                                                                                                                       | nts are for<br>review to                               | malized and assure the                                 | l<br>;      |
|                                           |                                                                                                                                                                                                                                                                 |                                                        |                                                        |             |
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|                                |                           | GLOSSARY                                                                                                                                                                                                                                                                 | Date                                             | 11/8/93                                               | 3            |
|                                | FPL                       |                                                                                                                                                                                                                                                                          | Page                                             | 12 of                                                 | 42           |
|                                | 5.0 <u>DEFINITIONS</u> :  | (Cont'd)                                                                                                                                                                                                                                                                 |                                                  |                                                       |              |
|                                | Design Control Document   | Documents that control the proposal of a plant chat<br>the initial evaluations, the design, review,<br>implementation of a plant change or modification,<br>procedure.                                                                                                   | nge or m<br>authoriz<br>as requi                 | nodificatior<br>ation, and<br>red by thi              | n,<br>d<br>s |
|                                | Design Criteria           | The summation of knowledge about a thing, techniq<br>defines its nature, purpose and limits so that it<br>modified, manufactured, fabricated, applied, used of<br>the satisfaction of an established need.                                                               | ue, or pro<br>may be<br>or mainta                | ccess which<br>developed<br>ined toward               | h<br>I,<br>d |
|                                | Design Input              | Those criteria, parameters, bases or other design which detailed final design is based.                                                                                                                                                                                  | ı requirer                                       | ments upor                                            | n            |
|                                | Design Interface          | The common boundary within or between comp<br>structures in which the expertise of two or more en-<br>(fields of study) are shared to assure the functional ac                                                                                                           | onents,<br>gineering<br>lequacy c                | systems o<br>discipline<br>of the items               | r<br>s<br>   |
|                                | Design Interface External | Relationship between design groups from d<br>Examples are the interfaces between the plant own<br>engineer or the plant owner and the NSSS (Nu<br>System) supplier, or the architect engineer and the N                                                                  | ifferent<br>ter and the<br>clear Ste<br>SSS supp | companie<br>he architec<br>am Supply<br>lier.         | s.<br>t<br>y |
| ,                              | Design Interface Internal | Relationship between design groups or organizations                                                                                                                                                                                                                      | within a                                         | company.                                              |              |
|                                | Design Life               | The time during which satisfactory performance ca<br>specific set of service conditions.                                                                                                                                                                                 | ın be exp                                        | ected for a                                           | a            |
|                                | Design Output             | Documents such as drawings, specifications an defining technical requirements of structures, system                                                                                                                                                                      | d other<br>s and con                             | documents.                                            | S            |
| 1/89                           | Design Requirements       | Documents that set the functional requirements, or<br>safety requirements, performance objectives, design<br>life. Included are any special requirements for size,<br>materials, fabrications or construction, testing, materials, safety margins, and derating factors. | perating (<br>margins,<br>weight, r<br>intenance | conditions<br>and desigr<br>uggedness<br>e, operating | ,<br>1<br>5  |
| orm 2719 (Non - Stocked) Rev.1 | Design Review             | An analysis of design with respect to technical a<br>control, inspectability, reliability, maintainability;<br>applicable codes, standards, regulations, and design of                                                                                                   | idequacy<br>and confo<br>riteria.                | y, interface<br>ormance to                            | )            |

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|                                 |                                   | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11/8/9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 93                                     |
|                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13 of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 42                                     |
|                                 | 5.0 <u>DEFINITIONS</u> :          | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
|                                 | Design Verification               | Checking or verifying the adequacy of design<br>performance of design reviews, the use of sin<br>calculation methods or by the performance of a suital                                                                                                                                                                                                                                                                                                         | 1, such<br>nplified<br>ble test p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | as by ti<br>or alterna<br>rogram.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | he<br>ite                              |
|                                 |                                   | The design verification shall be performed and doct<br>other than the originator of the design. If necessary,<br>be performed by the originator's supervisor, provide<br>not specify a singular design approach or rule<br>considerations, and did not establish the design input<br>The use of the originator's supervisor for design ver-<br>restricted to special situations where the supervisor is<br>within the design organization competent to perform | imented<br>the veri<br>ed the su<br>out cer<br>ts used in<br>erificatio<br>s the onl<br>the verif                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | by a perso<br>fication ma<br>pervisor d<br>rtain desig<br>in the desig<br>on should l<br>by individu<br>ication.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | on<br>ay<br>id<br>gn<br>n.<br>be<br>al |
|                                 | Designated Design<br>Organization | The engineering organization that is assigned by design work for a particular item or service. This in Engineering or any of Nuclear Engineering's contract                                                                                                                                                                                                                                                                                                    | FPL to the formation of | perform ti<br>PL Nucle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ne<br>ar                               |
|                                 | Desk Survey                       | An evaluation of a supplier's quality control ca<br>documented procedures and records of past performa                                                                                                                                                                                                                                                                                                                                                         | pability<br>ince.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | made from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m                                      |
| -                               | (1) Deviation                     | A nonconformance or departure of a characteristic from requirements.                                                                                                                                                                                                                                                                                                                                                                                           | m a spec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | cified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
|                                 | , Document                        | A written or printed paper bearing the original, offic<br>something that can be used to provide decisive inform                                                                                                                                                                                                                                                                                                                                                | ial, or le                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | egal form of proof.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | of                                     |
|                                 | (1) Documentation                 | Any written or pictorial information describing, d<br>reporting, or certifying activities, requirements, proce                                                                                                                                                                                                                                                                                                                                                 | efining,<br>edures of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | specifying<br>r results.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | g,                                     |
|                                 | Drawing Manifest                  | A document for transmitting drawings released the Engineering, Construction and Production.                                                                                                                                                                                                                                                                                                                                                                    | for cons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | truction, 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10                                     |
|                                 | Dynamic Load Test                 | A test wherein designated loads are hoisted, le<br>transported through all motions required to simul<br>intended items.                                                                                                                                                                                                                                                                                                                                        | owered,<br>ate hand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | rotated of the second s | or<br>ie                               |
| n 2719 (Non - Stocked) Rev.1/89 | (3) Emergency<br>Procedure        | Written instruction that specify actions, including m<br>controls, to avoid further degradation of off-normal<br>do not constitute an accident but could lead to an a<br>consequences of an accident or hazardous conditi<br>occurred, implement the emergency plan, or pr<br>hazardous natural occurrences.                                                                                                                                                   | nanipulat<br>which in<br>accident,<br>on that<br>epare f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | tion of plan<br>themselve<br>, reduce th<br>has alread<br>or possibl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | nt<br>es<br>le<br>le                   |

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|                    |                            | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                |                                                      |                                                   |               |
|                    |                            |                                                                                                                                                                                                                                                         | Rev.                                                 | 17 Draf                                           | t B           |
| a                  |                            | GLOSSARY                                                                                                                                                                                                                                                | Date                                                 | 11/8/93                                           | 3             |
|                    | FPL                        |                                                                                                                                                                                                                                                         | Page                                                 | 14 of                                             | 42            |
|                    | 5.0 <b>DEFINITIONS</b> :   | (Cont'd)                                                                                                                                                                                                                                                |                                                      |                                                   |               |
|                    | Engineer                   | The person responsible for the technical aspects of th                                                                                                                                                                                                  | e work.                                              |                                                   |               |
|                    | Engineered Safety Features | Features for mitigating the consequences of poincluding for example, containment, emergency containment atmospheric cleanup systems.                                                                                                                    | ostulated<br>core co                                 | accidents<br>oling, and                           | <b>i</b>      |
|                    | Engineering Hold           | A request by Engineering to place material or imp<br>until Engineering releases the item in writing. A<br>typically occurs when design documentation needs<br>issued prior to releasing an item for use.                                                | lementati<br>An engine<br>s to be re                 | on on hold<br>ering hold<br>eviewed of            | 1<br>1<br>r   |
|                    | Engineering Limitations    | Restrictions which, if disregarded, may result in a<br>shortening the life of the item, or preventing the item<br>intended.                                                                                                                             | damage to<br>from fun                                | the item<br>ctioning as                           | <b>,</b><br>5 |
|                    | Equipment Qualification    | The generation and maintenance of evidence to assur<br>will operate on demand to meet the system performan                                                                                                                                              | e that the ce require                                | equipmen<br>ements.                               | t             |
|                    | (1) Examination            | An element of inspection consisting of investig<br>components, supplies or services to determine co<br>specified requirements which can be determined by<br>Examination is usually nondestructive and include<br>manipulation, gaging, and measurement. | gation of<br>nformanc<br>such inv<br>les simpl       | materials<br>to those<br>vestigation<br>e physica | ,<br>;<br>[   |
|                    | (3) Experiments            | Performance of those plant operations carried o conditions in order to establish characteristics or va known.                                                                                                                                           | ut under<br>dues not                                 | controlled<br>previously                          | ,             |
| ×                  | (4) External Audit         | An audit of those portions of another organizations<br>program not under the direct control or within the org<br>of FPL.                                                                                                                                | s's quality<br>anization                             | assurance<br>al structure                         | ;<br>;        |
|                    | External Coordination      | Planning, follow-up and documentation of activit participating companies.                                                                                                                                                                               | ies amon                                             | g different                                       | :             |
| f) Rev.1/89        | Facility                   | A building installation, or established area that is used<br>or protection.                                                                                                                                                                             | for mater                                            | ial storage                                       | ;             |
| 719 (Non - Stocked | Failure                    | The termination of the ability of an item to perform it<br>Failures may be announced and not detected a<br>(unannounced failure), or they may be announced a<br>number of methods at the instant of occurrence (annot                                   | ts required<br>until the<br>and detect<br>unced fail | l function.<br>next test<br>ted by any<br>ure).   | ,             |
| Form 2             | ,                          |                                                                                                                                                                                                                                                         |                                                      |                                                   |               |

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|                                         | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                        |                                                                      |                                                                           |          |
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|                                         |                                                                                                                                                                                                                                                                                                 | Rev.                                                                 | 17 Dra                                                                    | ft B     |
|                                         | GLOSSARY                                                                                                                                                                                                                                                                                        | Date                                                                 | 11/8/9                                                                    | 3        |
| <u> </u>                                |                                                                                                                                                                                                                                                                                                 | Page                                                                 | 15 of                                                                     | 42       |
| 5.0 <b>DEFINITIONS</b> :                | (Cont'd)                                                                                                                                                                                                                                                                                        |                                                                      |                                                                           |          |
| Failure Stress                          | That stress at which failure is imminent due to deflections or vibrations, or permanent deformations unsafe conditions.                                                                                                                                                                         | lirect load<br>tions that                                            | s, excessiv<br>may lead 1                                                 | ve<br>to |
| Field Check                             | The act of verifying that the current plant confi<br>reflected on the drawing.                                                                                                                                                                                                                  | guration i                                                           | s accuratel                                                               | y        |
| (4) Final Design                        | Approved design output documents and approved of                                                                                                                                                                                                                                                | changes the                                                          | ereto.                                                                    |          |
| Final Safety Analysis<br>Report (FSAR)  | Describes the facility, presents the design bas<br>operation, and presents a safety analysis of the su<br>components and of the facility as a whole.                                                                                                                                            | es and li<br>ructures, s                                             | mits on it<br>ystems, an                                                  | is<br>d  |
| First Level<br>Design Review            | A review conducted by the responsible engineer wi for specific design discipline.                                                                                                                                                                                                               | thin the de                                                          | esign agenc                                                               | у        |
| Flame Retardant                         | Capable of preventing the propagation of a fire influence of the energy source that initiated the fire.                                                                                                                                                                                         | e beyond                                                             | the area o                                                                | of       |
| Flow Chart                              | A representation of the sequence of activities s<br>fabrication, processing, assembly, inspection and t<br>individual operations within one or more of those fu                                                                                                                                 | such as p<br>est, or the<br>unctions.                                | rocurement<br>sequence o                                                  | t,<br>of |
| Fluid                                   | Any gas or liquid.                                                                                                                                                                                                                                                                              | I                                                                    | ε                                                                         |          |
| Flushing                                | Flowing fluid through a component or system a suspend and carry away contaminants.                                                                                                                                                                                                              | t adequate                                                           | velocity to                                                               | 0        |
| FPL Company Technical<br>Representative | FPL's designated representative having responsibil<br>administration of a purchase order or contract but n<br>waive any obligations of FPL or the contractor pro<br>order or contract. The on-site coordinator, as de<br>Company Technical Representative, may be assigned<br>responsibilities. | ities and a<br>not having<br>ovided in t<br>esignated<br>ed to assis | authority fo<br>authority to<br>he purchase<br>by the FPI<br>t with these |          |
| Fuel Element                            | The smallest structurally discrete part of a fuel a nuclear materials, such as a fuel rod or fuel pin.                                                                                                                                                                                          | ssembly th                                                           | nat contain                                                               | S        |
| Generating Plant                        | A utility company complex, constructed and operat producing electric power.                                                                                                                                                                                                                     | ted for the                                                          | purpose o                                                                 | f        |
|                                         |                                                                                                                                                                                                                                                                                                 |                                                                      |                                                                           |          |

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|                                            | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                    |                                                |                                                      |                    |  |  |  |
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|                                            |                                                                                                                                                                                                                                                                                                                                                                                                             | Rev.                                           | 17 Dra                                               | raft B             |  |  |  |
|                                            | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                    | Date                                           | 11/8/9                                               | 3                  |  |  |  |
| FPL                                        |                                                                                                                                                                                                                                                                                                                                                                                                             | Page                                           | 16 of                                                | 42                 |  |  |  |
| 5.0 <u>DEFINITIONS</u> :                   | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |                                                      |                    |  |  |  |
| (2)Guidelines                              | Particular provisions which are considered good proton not mandatory in programs intended to comply with "should" denotes a guideline; the term "shall" denot the word "may" denotes permission, neither a recommendation. (See definition of Requirement)                                                                                                                                                  | ractice bu<br>Standard<br>es a requ<br>require | at which a<br>ls. The ten<br>irement; ar<br>ment nor | re<br>m<br>id<br>a |  |  |  |
| G Force                                    | A unit of acceleration equal to the acceleration of gra<br>used to measure the force on an item undergoin<br>expressed as a multiple of the item's weight.                                                                                                                                                                                                                                                  | avity (i.e.<br>ing accel                       | , 32 ft/sec.                                         | 2)<br>1d           |  |  |  |
| Handled Load                               | The weight of the item to be lifted plus the weight of such as lifting beam, slings, hooks, and blocks.                                                                                                                                                                                                                                                                                                     | any requ                                       | nired riggin                                         | g                  |  |  |  |
| (1) Handling                               | An act of physically moving items by hand or mechanical means, but not including transport modes.                                                                                                                                                                                                                                                                                                           |                                                |                                                      |                    |  |  |  |
| Heavy Load                                 | Any load carried in a given area after a plant becomes operational, that<br>weighs more than the combined weight of a single spent fuel assembly<br>and its associated handling tool for the specific plant in question.                                                                                                                                                                                    |                                                |                                                      |                    |  |  |  |
| Hoisting Equipment                         | Machinery used to physically move an item. T<br>chainfalls, ratchet hoists, etc. This does not inc<br>transportation modes such as fork lifts and motor vel                                                                                                                                                                                                                                                 | his inclu<br>clude mo<br>hicles.               | ides cranes<br>ovement vi                            | s,<br>a            |  |  |  |
| Hold Point                                 | An intermediate step in a step-by-step Procedur<br>Checklist, where an inspection, test, or verification<br>Examples range from a check for cleanliness<br>Examination of individual weld passes.                                                                                                                                                                                                           | e, Work<br>must be<br>to Non                   | Record c<br>performec<br>Destructiv                  | or<br>1.<br>e      |  |  |  |
| Housekeeping                               | Encompasses all activities related to control of clear<br>cleanness of material and equipment, fire preventio<br>including disposal of combustible materials and debr<br>and protection of materials.                                                                                                                                                                                                       | anliness o<br>on and fir<br>is, contro         | of facilities<br>e protectio<br>ol of access         | S,<br>n<br>S,      |  |  |  |
| Independent Review<br>& Audit Group (IRAG) | Personnel performing the independent review a regardless of whether they operate as part of an organ committee.                                                                                                                                                                                                                                                                                             | and aud<br>nizational                          | it functior<br>l unit or as                          | ı,<br>a            |  |  |  |
| Initial Start-Up Testing                   | Testing conducted at and after fuel loading and before commercial<br>operation that confirm the design bases and demonstrate, where practical,<br>that the plant is capable of withstanding the anticipated transients and<br>postulated accidents. The initial start-up tests consists of such activities<br>as precritical tests, low power test (including critical test), and power<br>ascension tests. |                                                |                                                      |                    |  |  |  |
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|                                        | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |
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|                                        | GLOSSARY                                                                                                                                                                                                                                                                                 | Date                                                                                                                                                                                                                                                                                           | 11/8/9                                                | 3                |  |  |  |
| FPL                                    |                                                                                                                                                                                                                                                                                          | Page                                                                                                                                                                                                                                                                                           | 17 of                                                 | 42               |  |  |  |
| 5.0 <u>DEFINITIONS</u> :               | (Cont'd)                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |
| Input Organization                     | The organization responsible for providing input<br>for preparation of outgoing Nuclear Reg<br>correspondence.                                                                                                                                                                           | s to Nucle<br>gulatory (                                                                                                                                                                                                                                                                       | ar Licensin<br>Commissio                              | g<br>n           |  |  |  |
| In-Process Tests                       | Tests performed during the course of fabrication<br>maintain control of items and materials. These test<br>the manufacturer or supplier, but samples for the<br>from items and materials that are supplied to the sit                                                                    | Tests performed during the course of fabrication and construction to<br>maintain control of items and materials. These tests may be performed by<br>the manufacturer or supplier, but samples for these tests must be taken<br>from items and materials that are supplied to the site for use. |                                                       |                  |  |  |  |
| Inspector                              | The person who performs inspections or exan compliance with specifications, procedures, dra standards.                                                                                                                                                                                   | The person who performs inspections or examinations to determine compliance with specifications, procedures, drawings, and applicable standards.                                                                                                                                               |                                                       |                  |  |  |  |
| (1)Inspector<br>(State or Code)        | A qualified inspector employed by a legally co<br>Municipality or state of the United States, or reg<br>Authorized Inspection agency and having author<br>site of manufacture or installation. Also is know<br>Inspector" or "(AI)".                                                     | onstituted a<br>ularly emp<br>ized jurisd<br>wn as the                                                                                                                                                                                                                                         | agency of<br>loyed by a<br>iction at th<br>Authorized | a<br>n<br>e<br>d |  |  |  |
| (2) Inspector (Owner's or Installer's) | A qualified inspector employed by the Owner or I include the verification of quality related activities of                                                                                                                                                                               | Installer, v<br>on installat                                                                                                                                                                                                                                                                   | vhose dutie<br>ions.                                  | S                |  |  |  |
| (2) Inspection<br>(3)                  | Examination, observations, or measurement to determine the conformance of materials, supplies, components, parts, appurtenances, systems, processes, or structures to predetermined requirements.                                                                                        |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |
| Inspection and<br>Test Plan            | A listing of all the inspections and tests required to be performed for a specific item, component, structure or service.                                                                                                                                                                |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |
| Installed Life                         | The time interval for which an equipment or component thereof will be<br>installed; e.g., a motor may have an installed life of 40 years with certain<br>components of the motor being replaced periodically; thus, the installed<br>life of the components would be less than 40 years. |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |
| Instructions                           | A series of logical and well defined steps which are usually, but not necessarily limited to, written descriptions that provide an efficient and uniform method for achieving an objective.                                                                                              |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |
| Interface Control                      | The steps that are taken to assure that structural,<br>and environmental common boundaries between<br>geometrically and functionally compatible.                                                                                                                                         | mechanica<br>adjacent                                                                                                                                                                                                                                                                          | al, electrical<br>regions are                         | ,                |  |  |  |
|                                        |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                |                                                       |                  |  |  |  |

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|                                       | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                         |                                                                                                   |                               |  |  |  |
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|                                       | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                              | Date 11/8/93                                                                            |                                                                                                   |                               |  |  |  |
| FPL                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                       | Page                                                                                    | 18 of                                                                                             | 42                            |  |  |  |
| 5.0 <u>DEFINITIONS</u> :              | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                         |                                                                                                   |                               |  |  |  |
| (4) Internal<br>Audit                 | An audit of those portions of the FPL Quality retained under it's direct control and within the orga FPL.                                                                                                                                                                                                                                                                                                                             | Assuran<br>Inizational                                                                  | ce Progran<br>structure of                                                                        | n<br>of                       |  |  |  |
| Internal Coordination                 | Planning, follow-up and documentation of activities among participating organizations within a company.                                                                                                                                                                                                                                                                                                                               |                                                                                         |                                                                                                   |                               |  |  |  |
| Internal Design<br>Interface          | Relationship between design groups or organization                                                                                                                                                                                                                                                                                                                                                                                    | s within a                                                                              | company.                                                                                          |                               |  |  |  |
| Isolation Device                      | A device placed in a circuit to prevent malfunctions in one section to cause unacceptable influences in other sections of the circuit or other circuits.                                                                                                                                                                                                                                                                              |                                                                                         |                                                                                                   |                               |  |  |  |
| (1) Item                              | Any level of unit assembly, including structure, system, subsystem, subsystem, subassembly, component, part or material.                                                                                                                                                                                                                                                                                                              |                                                                                         |                                                                                                   |                               |  |  |  |
| Item Control<br>Area (ICA)<br>Lay-up  | A defined area within the nuclear power plant for<br>materials records are maintained in such a way that<br>count and related quantities of nuclear materials can<br>records for the nuclear materials located within the a<br>physical boundaries. ICA's generally consist of no<br>reactors, and irradiated fuel storage areas.<br>The protection of an item after it has been<br>deterioration while the item is out of service or | or which<br>, at any ti<br>be obtain<br>rea. ICA<br>ew fuel sto<br>cleaned,<br>awaiting | the nuclea<br>me, an iter<br>ied from th<br>'s shall hav<br>orage areas<br>to preven<br>subsequen | ur<br>n<br>e<br>e<br>s,<br>it |  |  |  |
|                                       | operations.                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                         |                                                                                                   |                               |  |  |  |
| Lead Auditor                          | An individual whose experience and training qualifies him to orga<br>and direct an audit, report audit findings, and evaluate corrective action                                                                                                                                                                                                                                                                                       |                                                                                         |                                                                                                   |                               |  |  |  |
| Lifetime Records                      | Records which are required by the NRC facility of NRC construction permit, applicable parts of 10 other NRC commitments to be retained for the life of                                                                                                                                                                                                                                                                                | ity operating license, the<br>10 CFR, the FSAR, or<br>fe of the plant.                  |                                                                                                   |                               |  |  |  |
| Limiting Conditions<br>for Operations | Lowest functional capability or performance levels of for safe operation of a nuclear facility.                                                                                                                                                                                                                                                                                                                                       | y or performance levels of equipment required ar facility.                              |                                                                                                   |                               |  |  |  |
| Limiting Safety<br>System Settings    | Settings for automatic protective devices related to significant safety functions.                                                                                                                                                                                                                                                                                                                                                    | those vari                                                                              | able having                                                                                       | ł                             |  |  |  |
|                                       | · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                       |                                                                                                   |                               |  |  |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                         |                                                                                                   |                               |  |  |  |

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|                                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                             |                                                                                                                                                                                                              |                                   |  |  |  |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--|--|--|
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rev.                                                                                                                                                                        | 17 Dra                                                                                                                                                                                                       | ft B                              |  |  |  |
|                                                 | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date                                                                                                                                                                        | 11/8/9                                                                                                                                                                                                       | 93                                |  |  |  |
| 50 DEFINITIONS:                                 | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Page                                                                                                                                                                        | 19 of                                                                                                                                                                                                        | 42                                |  |  |  |
| S.U <u>DEFINITIONS</u> .                        | (Contu)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                             |                                                                                                                                                                                                              |                                   |  |  |  |
| Lower Tier<br>Procurement                       | Procurement by a Supplier from a subsupplier of ite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ms or ser                                                                                                                                                                   | vices.                                                                                                                                                                                                       | ı.                                |  |  |  |
| (5) Maintenance &<br>Modification<br>Procedures | Written instructions defining the policies and<br>mechanical, electrical, and instrumentation and c<br>nuclear power plant are kept in a condition of good r<br>they may satisfactorily perform their intende<br>procedures include those activities performed<br>contractor personnel to maintain repair or m<br>equipment. Related activities are those actions<br>personnel to determine that a planned activity can<br>under the existing plant operating conditions, to aut<br>to be maintained in accordance with equipment contr<br>assure that the equipment has been returned to norm<br>the completion of the maintenance work inclu-<br>functional acceptability. Procedures for these r<br>operating personnel are considered to be operating<br>be included in maintenance procedures. | practice:<br>ontrol sy<br>epair or e<br>d functi<br>by main<br>odify sa<br>taken b<br>be perfo<br>horize the<br>ol procect<br>al operat<br>ding ver<br>elated a<br>procedur | s by whic<br>vstems of<br>efficiency s<br>ions. Thes<br>itenance of<br>fety-relate<br>y operatin<br>rmed safel<br>e equipment<br>lures, and the<br>ing status<br>rification of<br>ctivities b<br>res, but ma | ch a so se or ed gynt to at fry y |  |  |  |
| Malfunction                                     | An occurrence, either catastrophic or a gradual<br>causes the performance of an item to deviate from<br>item's specification. It is a condition that requ<br>maintenance personnel to return the item to a satisfac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | deteriora<br>limits de<br>ires the<br>tory cond                                                                                                                             | tion, whic<br>tailed in th<br>services c<br>lition.                                                                                                                                                          | h<br>e<br>of                      |  |  |  |
| (1) Manufacturer                                | One who constructs any class of component, part meet prescribed design requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | , or appu                                                                                                                                                                   | irtenance t                                                                                                                                                                                                  | 0                                 |  |  |  |
| Master Drawing Index                            | A list which identifies current or archived drawing numbers, drawing revisions and the plant to which the drawing applies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                             |                                                                                                                                                                                                              |                                   |  |  |  |
| (1) Material                                    | A substance or combination of substances forming components, parts, pieces, and equipment items. (Intended to include such as machinery, casting, liquids, formed steel shapes, aggregates, and cements.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                             |                                                                                                                                                                                                              |                                   |  |  |  |
| May                                             | It is used to denote permission, neither a recommendation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | requiren                                                                                                                                                                    | nent nor                                                                                                                                                                                                     | a                                 |  |  |  |
| Measuring & Test<br>Equipment (M&TE)            | Devices or systems used to calibrate, measure, gau<br>control in order to acquire research, development, tes<br>to determine compliance with design specifications<br>requirements. M&TE does not include permanentl<br>equipment or test equipment used for preliminary ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ige, test,<br>t or opera<br>s, or oth<br>y-installe<br>ecks whe                                                                                                             | inspect, o<br>ational data<br>er technica<br>ed operating<br>re accurac                                                                                                                                      | or<br>u;<br>ul<br>g               |  |  |  |

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|                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                                                                                     | <u> </u>                        |
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|                           |                                                                                                                                                                                                                                                                                                                                                                  | Rev.                                                                             | 17 Dra                                                                              | lft B                           |
|                           | GLOSSARY                                                                                                                                                                                                                                                                                                                                                         |                                                                                  | 11/8/9                                                                              |                                 |
|                           |                                                                                                                                                                                                                                                                                                                                                                  | Page                                                                             | 20 of                                                                               | 42                              |
| 5.0 <u>DEFINITIONS</u> :  | (Cont'd)                                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                                                                                     |                                 |
| Mechanical Cleaning       | A method in which contaminant removal is ac<br>mechanical means, including wiping, abrasiv<br>grinding, sanding, chipping, etc.                                                                                                                                                                                                                                  | ccomplishe<br>e blasting                                                         | ed solely l<br>g, brushin                                                           | oy<br>g,                        |
| Mechanical Items          | Parts, components, or systems that function pretaining, mass moving, or heat exchange pur mechanical items are rotating equipment (moto handling equipment (cranes, hoists, conveyors), valves, hangers), fuel handling systems, and waste                                                                                                                       | primarily<br>poses. E<br>prs, pump<br>piping system<br>effluent s                | for pressu<br>xamples<br>s, blowers<br>stems (pip<br>ystems.                        | re<br>of<br>s),<br>e,           |
| (1) Modifications         | A planned change in plant design or operation<br>accordance with the requirements and limitation<br>standards, specifications, licenses and predetermine                                                                                                                                                                                                         | and acco<br>s of applic<br>ed safety r                                           | mplished :<br>cable code<br>estrictions.                                            | in<br>s,                        |
| Module                    | Any assembly of interconnected components<br>identifiable device, instrument, or piece of equipm<br>disconnected, removed as a unit, and replaced<br>definable performance characteristics which perm<br>unit. A module could be a card or other subassem<br>provided it meets the requirements of this definition                                               | which co<br>lent. A ma<br>with a sp<br>hit it to be<br>hobly of a l<br>h.        | nstitutes a<br>odule can b<br>are It ha<br>tested as<br>arger devic                 | in<br>xe<br>as<br>a<br>xe       |
| National Standards        | Standard practices, codes, and specifications develops<br>the National Institute of Standards and Technology<br>National Standards Institute (ANSI), the America<br>and Materials (ASTM), the American Society of 1<br>(ASME), the American Society for Nondestructive<br>Institute of Electrical and Electronics Engineer<br>institutions of similar character. | oped and f<br>(NIST), the<br>an Society<br>Mechanica<br>e Testing (<br>rs (IEEE) | bublished b<br>the America<br>for Testin<br>al Engineer<br>(ASNT), the<br>and other | y<br>in<br>ig<br>is<br>ie<br>er |
| (1) Nonconformance<br>(4) | A deficiency in characteristic, process, service, doc<br>dure which renders the quality of an item unaccept<br>Examples of nonconformance include (but are no<br>defects, test failures, incorrect or inadequate docur<br>from prescribed processing, inspection, or test proc                                                                                   | umentation<br>table or in<br>ot limited<br>nentation,<br>cedures.                | n, or proce<br>determinate<br>to) physica<br>or deviatio                            | -<br>e.<br>al<br>n              |
| Non-Permanent Record      | Records which are required by the NRC facility<br>NRC construction permit, applicable parts of 10<br>other NRC commitments to be retained for period<br>life of the plant.                                                                                                                                                                                       | operating<br>CFR, the<br>s of time l                                             | license, th<br>FSAR, c<br>ess than th                                               | e<br>or<br>e                    |
|                           | •<br>•                                                                                                                                                                                                                                                                                                                                                           |                                                                                  |                                                                                     |                                 |

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|                               |                                                      | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |  |  |  |  |  |  |
|                               |                                                      |                                                                                                                                                                                                                                                                                                                                                                                       | Rev. 17 Draft B                                                                                                                                |  |  |  |  |  |  |
|                               |                                                      | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                              | Date 11/8/93                                                                                                                                   |  |  |  |  |  |  |
|                               | FPL                                                  |                                                                                                                                                                                                                                                                                                                                                                                       | Page 21 of 42                                                                                                                                  |  |  |  |  |  |  |
|                               | 5.0 <b>DEFINITIONS</b> :                             | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |  |  |  |  |  |  |
|                               | Not-QL-1, QL-2,<br>-or-QL-3-Classification           | " <u>Not-QL-1, QL-2, or QL-3" Procurement Classification:</u><br>classification may be-used-in-lieu-of-the-above-classifications when<br>following condition exists:                                                                                                                                                                                                                  |                                                                                                                                                |  |  |  |  |  |  |
|                               |                                                      | The item or service is not for use in or in conjunction system or quality related system, and does not reclassifications of QL 1, QL 2, or QL 3.                                                                                                                                                                                                                                      | n with a safety-related<br>neet the-procurement                                                                                                |  |  |  |  |  |  |
|                               |                                                      | "Not-QL-1,-QL-2,-or-QL-3" items are not subject to-                                                                                                                                                                                                                                                                                                                                   | 10CFR-21.                                                                                                                                      |  |  |  |  |  |  |
|                               | Nuclear Plant<br>Drawing Index                       | A list of all drawings for a nuclear power plant which plant operation, maintenance or design.                                                                                                                                                                                                                                                                                        | h are required for                                                                                                                             |  |  |  |  |  |  |
| ŝ                             | (3) Nuclear Power<br>Plant                           | Any plant using a nuclear reactor and associated equipment necessary to<br>produce electric power, and includes those structures, systems and<br>components required to provide reasonable assurance the facility can be<br>operated without undue risk to the health and safety of people.                                                                                           |                                                                                                                                                |  |  |  |  |  |  |
|                               | Nuclear Reactor                                      | An apparatus, other than an atomic weapon, designe nuclear fission in a self-supporting chain reaction.                                                                                                                                                                                                                                                                               | d and used to sustain                                                                                                                          |  |  |  |  |  |  |
| -                             | Nuclear Steam<br>Supply System (NSSS)                | That portion of the nuclear generating plant which<br>nuclear heat. It includes the reactor, its control sy<br>and steam generation systems, fuel handling equipm<br>cooling system; and other safeguards, associated<br>instrumentation, spent fuel handling, and radioad<br>system.                                                                                                 | provides steam from<br>vstems, main coolant<br>ment, emergency core<br>electrical equipment,<br>ctive waste disposal                           |  |  |  |  |  |  |
|                               | <ul><li>(1) Objective</li><li>(4) Evidence</li></ul> | Any statement of fact, information, or record, e<br>qualitative, pertaining to the quality of an item o<br>observations, measurements, or tests which can be v                                                                                                                                                                                                                        | either quantitative or<br>or service based on<br>erified.                                                                                      |  |  |  |  |  |  |
| 2719 (Non - Stocked) Rev.1/89 | (3) Off-Normal Condition<br>Procedures               | Written instructions, whether included in system<br>separate procedures, that specify operator actio<br>operating variable to its normal controlled value whe<br>range or to restore normal operating conditions follo<br>Such actions are invoked following an operator obs<br>of a condition that, if not corrected, could degene<br>requiring action under an emergency procedure. | n procedures or as<br>ns for restoring an<br>en it departs from its<br>owing a perturbation.<br>servation or an alarm<br>rate into a condition |  |  |  |  |  |  |
| Form                          |                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |  |  |  |  |  |  |

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|                             | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                    |                                      |                                         |             |  |  |  |
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|                             |                                                                                                                                                                                                                                                                                                                             | Rev.                                 | 17 Dra                                  | lft B       |  |  |  |
|                             | GLOSSARY                                                                                                                                                                                                                                                                                                                    |                                      | 11/8/9                                  | 93          |  |  |  |
| FPL                         |                                                                                                                                                                                                                                                                                                                             | Page                                 | 22 of                                   | 42          |  |  |  |
| 5.0 <u>DEFINITIONS</u> :    | (Cont'd)                                                                                                                                                                                                                                                                                                                    | 4 <sup>1</sup>                       |                                         |             |  |  |  |
| On-Site Services            | Services provided by a company under contract specific nuclear plant site task.                                                                                                                                                                                                                                             | to FPL                               | o perform                               | a           |  |  |  |
| Operating Experience        | Accumulation of verifiable service data for condition for the equipment to be qualified.                                                                                                                                                                                                                                    | ons equiva                           | alent to tho                            | se          |  |  |  |
| Operating Organization      | On-site personnel concerned with day-today operat certain technical services.                                                                                                                                                                                                                                               | ion, main                            | tenance, ar                             | nd          |  |  |  |
| (3) Operating<br>Procedures | Written instructions defining the normal method, means and limits of<br>operation of a nuclear power plant, a plant system or systems, or<br>processes, including actions to be taken by operating personnel for<br>removal from and return to service of equipment on which maintenance is<br>to be or has been performed. |                                      |                                         |             |  |  |  |
| • Operational Tests         | Tests that are performed during the operation of<br>continued satisfactory performance of safety relate<br>and components.                                                                                                                                                                                                  | of the pland structure               | nt to verif<br>res, system              | Šy<br>s,    |  |  |  |
| Operations                  | Includes those operations activities which occur fro<br>Operating license to Decommissioning of the Plant.                                                                                                                                                                                                                  | om the iss                           | uance of th                             | ie          |  |  |  |
| Original Drawing            | The drawing used by JPN as the master copy.                                                                                                                                                                                                                                                                                 |                                      |                                         |             |  |  |  |
| (1) Owner                   | The person, group, company or corporation who will have or has title to the facility or installation under construction.                                                                                                                                                                                                    |                                      |                                         |             |  |  |  |
| (3) Owner<br>Organization   | The organization, including the on-site operating overall legal, financial, and technical responsibility one or more nuclear power plants.                                                                                                                                                                                  | organizati<br>for the                | on, that ha                             | ls<br>of    |  |  |  |
| (1) Package                 | A wrapping or container, including its contents of m                                                                                                                                                                                                                                                                        | aterial or                           | equipment                               |             |  |  |  |
| (1) Packaged<br>Unit        | An assembly of items and parts which can be disass<br>destroying the integrity of the individual parts.                                                                                                                                                                                                                     | embled w                             | ithout                                  |             |  |  |  |
| (1) Part                    | An item which has work performed on it and which is attached to and becomes part of a component before completion of the component.                                                                                                                                                                                         |                                      |                                         |             |  |  |  |
| Period of Manufacture       | The period which begins with the design of the equ<br>ends when equipment has been prepared for ship<br>design, procurement of materials, shop fabrication<br>testing and preparation for shipment.                                                                                                                         | ipment or<br>oment; it<br>s and asso | system and<br>will includ<br>embly, sho | d<br>e<br>p |  |  |  |
| Form 21                     |                                                                                                                                                                                                                                                                                                                             |                                      | 4                                       |             |  |  |  |

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|                                            | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |                                                                                                            |                            |
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|                                            | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date                                                                                                  | 11/8/9                                                                                                     | )3                         |
| FPL                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Page                                                                                                  | 23 of                                                                                                      | 42                         |
| 5.0 <b>DEFINITIONS</b> :                   | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |                                                                                                            |                            |
| Physical Walk-Through                      | Visual check for damage, cleanness and weatherpr<br>engineering document (including isometrics and<br>and to verify the configuration and condition of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | roofing, us<br>P&ID's) :<br>system ar                                                                 | ing the late<br>for guidance<br>and systems.                                                               | est<br>Ce                  |
| (1) Plant                                  | The equipment, piping, structures, buildings and p<br>an installation or facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | property th                                                                                           | nat compris                                                                                                | se                         |
| Plant Change Design<br>Package             | The file containing the appropriate design con<br>Change/Modification PC/M Form, or Control Plan<br>and all pertinent documentation to support the plan<br>Authorization Request, the Safety Evaluation<br>reviews, design material, acceptance tests and pro-<br>correspondence or material applicable to the char<br>assembled as the various tasks required by this pro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ntrol docu<br>It Work Or<br>It changes<br>all requ<br>ocedures,<br>Ige). <del>Thi</del><br>cedure are | ment (Plan<br>rder CPWC<br>(ie., Projectired writte<br>and relevan<br><del>5-package -<br/>performed</del> | nt<br>))<br>ct<br>is<br>nt |
| (5) Plant Change or<br>Modification (PC/M) | Changes or modifications to plant systems or eq<br>modifications affecting nuclear safety related<br>impacting the environment are considered to be sa<br>not include replacements of parts/components which<br>been demonstrated and documented as equivalent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | uipment.<br>systems o<br>fety relate<br>ch are iden                                                   | Changes of adversel d. This doe tical or hav                                                               | or<br>y<br>s<br>ve         |
| Plant Change/                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                       |                                                                                                            |                            |
| Implementation                             | Completion of construction/installation affecting pl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ant drawin                                                                                            | gs.                                                                                                        |                            |
| Plant Protection System                    | Systems provided to act, if needed, to avoid exce<br>anticipated operational transients and to activate a<br>safety features as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | eding a sa<br>ppropriate                                                                              | ifety limit i<br>engineere                                                                                 | n<br>d                     |
| Precision                                  | The degree of resolution of a measurement; for example, and the second s    | mple, read                                                                                            | ability.                                                                                                   |                            |
| Preconstruction-Phase                      | That-period of-time prior to the commencement of activities such as planning, financing, designing satisfying of local, state, and Federal Gove regulations pertaining to the securing of con accomplished.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | of-constru<br>g, procuri<br>ornmontal-<br>struction-                                                  | <del>ction, whe<br/>ng, and th<br/>codes an<br/>permits ar</del>                                           | ት<br>ት<br>ት                |
| Preliminary Design<br>Review               | Assesses the technical adequacy of the selected de<br>the design compatibility with the functionarequirements of the Software Requirements Specific Sp | sign appro<br>al and po-<br>cification                                                                | ach; check<br>erformanc                                                                                    | s                          |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------|----|--|--|--|--|--|
|                         |                                                                                                                                                                                                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                                                                                        | Rev.                                                        | t B                                                               |    |  |  |  |  |  |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                  | GLOSSARY                                                                                                                                                                                                                                                                                 |                                                             | 11/8/93                                                           | 3  |  |  |  |  |  |
|                         | FPL                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                          | Page                                                        | 24 of                                                             | 42 |  |  |  |  |  |
| Ī                       | 5.0 <u>DEFINITIONS</u> :                                                                                                                                                                                                                                                                                                                                                                         | (Cont'd)                                                                                                                                                                                                                                                                                 |                                                             |                                                                   |    |  |  |  |  |  |
|                         | Preliminary Safety<br>Analysis Report<br>(PSAR)                                                                                                                                                                                                                                                                                                                                                  | The detailed safety evaluation prepared for the U.S.<br>Commission prior to issuance of the site construction<br>delineates design, normal and emergency operation<br>predicted consequences of such accidents, and the<br>prevent these accidents and to reduce the consequer<br>level. | Nuclear<br>n permit.<br>, potentia<br>means p<br>nces to an | Regulatory<br>The PSAF<br>l accidents<br>roposed to<br>acceptable |    |  |  |  |  |  |
|                         | Preoperational Testing                                                                                                                                                                                                                                                                                                                                                                           | The tests that are conducted prior to fuel loading to demonstrate the capability of structures, systems, and components to meet safety-related performance requirements.                                                                                                                 |                                                             |                                                                   |    |  |  |  |  |  |
|                         | Principal Auditor See "Lead Auditor".                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                          |                                                             |                                                                   |    |  |  |  |  |  |
| ); .                    | Principal Load<br>Carrying Members                                                                                                                                                                                                                                                                                                                                                               | Those components of a system whose structural integrity must be maintained to insure a safe operation.                                                                                                                                                                                   |                                                             |                                                                   |    |  |  |  |  |  |
|                         | Principal<br>Structural Weld                                                                                                                                                                                                                                                                                                                                                                     | Those welds which join or affect the integrity of principal load carrying members.                                                                                                                                                                                                       |                                                             |                                                                   |    |  |  |  |  |  |
|                         | (1) Procedure                                                                                                                                                                                                                                                                                                                                                                                    | A document that specifies or describes how an activity is to be<br>performed. It may include methods to be employed, the equipment or<br>materials to be used and a sequence of operations.                                                                                              |                                                             |                                                                   |    |  |  |  |  |  |
|                         | Procurement<br>Agent (PA)                                                                                                                                                                                                                                                                                                                                                                        | See "Purchasing Agent"                                                                                                                                                                                                                                                                   | ,<br>,                                                      |                                                                   | •  |  |  |  |  |  |
|                         | Procurement<br>Classification (PC-1)                                                                                                                                                                                                                                                                                                                                                             | the suppli                                                                                                                                                                                                                                                                               | er.                                                         |                                                                   |    |  |  |  |  |  |
|                         | This classification shall be used when one or more of the follo<br>conditions exist:<br>a. The item or service is for use in or in conjunction with a s<br>related system and the item or service does not meet the definit<br>a commercial grade item and the work that is to be perform<br>safety related and any portion of the work is to be performed<br>the supplier's Nuclear QA Program. |                                                                                                                                                                                                                                                                                          |                                                             |                                                                   |    |  |  |  |  |  |
| lon - Stocked) Rev.1/89 |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                          |                                                             |                                                                   |    |  |  |  |  |  |
| Form 2719               |                                                                                                                                                                                                                                                                                                                                                                                                  | ,                                                                                                                                                                                                                                                                                        |                                                             |                                                                   |    |  |  |  |  |  |

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|                                                    | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                  |                                                                |                                                                         |                       |
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|                                                    |                                                                                                                                                                                                                                                                                                           | Rev.                                                           | 17 Draf                                                                 | ît B                  |
|                                                    | GLOSSARY                                                                                                                                                                                                                                                                                                  | Date                                                           | 11/8/93                                                                 | 3                     |
| FPL                                                |                                                                                                                                                                                                                                                                                                           | Page                                                           | 25 of                                                                   | 42                    |
| 5.0 <u>DEFINITIONS</u> :                           | (Cont'd)                                                                                                                                                                                                                                                                                                  |                                                                |                                                                         |                       |
| ,                                                  | b. For training, when associated with a basic co<br>paragraph 21.3(a)(1) of 10CFR 21 (for ex-<br>examination training, in-service inspection (<br>training).                                                                                                                                              | mponent a<br>ample, no<br>(ISI) or te                          | as defined i<br>ndestructiv<br>esting (IST                              | n<br>e<br>')          |
| Procurement                                        |                                                                                                                                                                                                                                                                                                           |                                                                |                                                                         |                       |
| - Commercial Grade                                 | PC-2 items and services are not subject to 10CF (FPL assumes 10CFR21 responsibility.)                                                                                                                                                                                                                     | R21 by t                                                       | he supplier                                                             | r <b>.</b>            |
|                                                    | This classification should be used when the iter<br>conjunction with a safety related system and med<br>commercial grade item.                                                                                                                                                                            | n is for u<br>ets the de                                       | ise in or in finition of a                                              | n<br>a                |
| Classification (PC-3)<br>Augmented Quality         | PC-3 items and services are not subject to 10CFR 21 by the supplier.                                                                                                                                                                                                                                      |                                                                |                                                                         |                       |
| ,                                                  | This classification may be applied to any item or se<br>non-safety related regulatory requirements or<br>imposed by FPL, which include those items and<br>quality related.                                                                                                                                | rvice that<br>special re<br>d services                         | is subject to<br>equirement<br>defined a                                | D<br>S<br>S           |
| ••••                                               | NOTE: Basic components cannot be procured PC-3                                                                                                                                                                                                                                                            | 3.                                                             |                                                                         |                       |
| Procurement<br>Classification (PC-4)<br>Commercial | PC-4 items and services are not subject to 10CFR2.<br>(For safety related services under this classific 10CFR21 responsibility.)                                                                                                                                                                          | 1 by the su<br>cation, FF                                      | pplier.<br>L assume                                                     | s                     |
|                                                    | This classification may be used when one or m conditions are met:                                                                                                                                                                                                                                         | ore of the                                                     | e following                                                             | 3                     |
|                                                    | a. The item or service is not safety related nor au                                                                                                                                                                                                                                                       | gmented o                                                      | luality.                                                                |                       |
| (2) Producement                                    | b. The service to be provided is safety related to to the supplier and all of the work is performe Program.                                                                                                                                                                                               | FPL, but<br>ed under t                                         | commercia<br>he FPL QA                                                  | 1                     |
| (4) Documents                                      | Contractually binding documents, including such do<br>letters of intent, work orders, purchase orders of<br>acceptances which authorize the seller to perform<br>equipment, material or facilities on behalf of the purposes, procurement requisitions are considered and the context of this definition. | ocuments a<br>r proposa<br>n service<br>urchaser.<br>sidered j | as contracts<br>ls and their<br>s or supply<br>For contro<br>procuremen | ,<br>r<br>/<br>1<br>t |

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|                                 |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rev.                                                                          |                                                                                    | uft B                       |
|                                 |                                  | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date                                                                          | 11/8/9                                                                             | )3                          |
|                                 | FPL                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page                                                                          | 26 of                                                                              | 42                          |
|                                 | 5.0 <b>DEFINITIONS</b> :         | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>_l</b>                                                                     |                                                                                    |                             |
|                                 | Procurement<br>Requisition       | Request and authorization for purchase of items<br>procurement requisition consists of a Form 1 RPA,<br>or Contract Change Order (CCO), and any ref<br>thereto.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and/or s<br>Form 2 F<br>ferenced                                              | ervices.<br>PA (BAR<br>attachmen                                                   | A<br>.),<br>ts              |
|                                 | Program Deficiencies             | The failure to develop, document or implement effect element of the quality assurance program.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ctively an                                                                    | y applicab                                                                         | le                          |
| ,                               | Program Audits                   | Performed to verify that a program is in effect and for<br>the FPL QA Program and to satisfy plant specific au                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ollowed to<br>dit require                                                     | o implemen<br>ements.                                                              | nt                          |
|                                 | (1) Project                      | A planned series of activities including all of the provide, utilize, and maintain a facility or a portion the provide of a portion the series of the series | actions r<br>hereof.                                                          | necessary (                                                                        | to                          |
|                                 | Protection System                | The electrical and mechanical devices and circuit<br>actuation device input terminals) involved in gene<br>associated with the protective function. These signs<br>actuate reactor trip and that, in the event of a serie<br>actuate engineered safeguards including safety inje<br>containment spray, containment isolation, and main s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ry (from<br>erating th<br>als includ<br>ous react<br>ection, re<br>steam isol | sensors t<br>nose signal<br>le those that<br>or acciden<br>ccirculation<br>lation. | to<br>Is<br>at<br>it,<br>n, |
|                                 | (1) Purchaser                    | The organization or organizations responsible administration of a contract, subcontract, or purchase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | for iss<br>e order.                                                           | uance an                                                                           | d                           |
|                                 | Purchasing Agent                 | The FPL Representative designated to act in FPL's procurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | behalf o                                                                      | n a specifi                                                                        | c                           |
|                                 | QAPRC<br>Representative          | An individual designated by the head of each departm<br>who is the prime interface for coordination of quality<br>their department, with the QA Department, or with<br>The Quality Manager - Juno Beach or designee is a<br>group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | tent or ora<br>related m<br>h other d<br>the Chair                            | ganization<br>hatter withi<br>epartments<br>man of thi                             | n<br>s.<br>is               |
|                                 | QAPRC Meeting                    | Periodic meetings which are conducted by the QA which all QAPRC members are invited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PRC Cha                                                                       | airperson t                                                                        | ο ͺ                         |
| n 2719 (Non - Stocked) Rev.1/89 | (2) Qualification<br>(Personnel) | The characteristics or abilities gained through train<br>both as measured against established requirements<br>tests that qualify an individual to perform a required f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ing or ex<br>such as s<br>function.                                           | perience o<br>tandards o                                                           | or<br>or                    |
| For                             |                                  | · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                               |                                                                                    | х.                          |

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|                                        |                                                                                                                                                                                                                                                                                                                                                                            | Rev.                                                                        | 17 Dra                                                                    | ft B                            |
|                                        | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                   | Date                                                                        | 11/8/9                                                                    | 3                               |
| FPL                                    |                                                                                                                                                                                                                                                                                                                                                                            | Page                                                                        | 27 of                                                                     | 42                              |
| 5.0 <b>DEFINITIONS</b> :               | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                   |                                                                             |                                                                           |                                 |
|                                        |                                                                                                                                                                                                                                                                                                                                                                            | 4                                                                           |                                                                           |                                 |
| Qualification Tests                    | Tests performed to qualify the basic material sou<br>These tests are mandatory unless current docur<br>available to establish complete confidence in confor<br>requirements.                                                                                                                                                                                               | nce or m<br>nentary te<br>mance to a                                        | anufacture<br>est data a<br>specificatio                                  | er.<br>re<br>on                 |
| Qualified Life                         | The period of time for which satisfactory<br>demonstrated for a specific set of service conditions<br>particular equipment or item may be changed du<br>where justified.                                                                                                                                                                                                   | performa<br>The qua<br>ring its i                                           | nce can l<br>lified life<br>nstalled li                                   | xe<br>of<br>fe                  |
| (1) Qualified Party                    | A person or organization competent and recognized perform certain functions.                                                                                                                                                                                                                                                                                               | as know                                                                     | ledgeable                                                                 | to                              |
| (1) Qualified Procedure                | A procedure which incorporates all applicable of manufacturer's parameters, and engineering specific proven adequate for its intended purpose.                                                                                                                                                                                                                             | odes and<br>ications a                                                      | l standard<br>nd has bee                                                  | s,<br>n                         |
| Qualitative Acceptance<br>Criteria     | Those acceptance criteria pertaining to quality, kind                                                                                                                                                                                                                                                                                                                      | or charact                                                                  | er.                                                                       |                                 |
| Quality                                | That aspect of an item, operation, process, or service specified requirements, codes, or standards.                                                                                                                                                                                                                                                                        | ce which (                                                                  | conforms (                                                                | 0                               |
| Quality Achievement<br>Functions       | Designing, purchasing, fabricating, handling, cleaning, directing and installing.                                                                                                                                                                                                                                                                                          | shippin                                                                     | g, storing                                                                | 5,                              |
| (2) Quality<br>(3) Assurance           | All those planned and systematic actions necessary<br>confidence that a structure, system or comp<br>satisfactorily in service. Quality Assurance includes                                                                                                                                                                                                                 | y to provi<br>onent with a quality of                                       | de adequat<br>ill perform<br>ontrol.                                      | e<br>n                          |
| QA Approved Suppliers<br>List (QA-ASL) | The QA-ASL identifies the name, locations, scope, and limitations of products of firms approved by C safety-related and commercial grade items or service                                                                                                                                                                                                                  | quality ap<br>2A supply<br>s.                                               | proval leve<br>ving nuclea                                                | el<br>ur                        |
| Quality Assurance<br>Indoctrination    | Those instruction periods used to describe the FP<br>Program including the administrative controls; licen<br>the Nuclear Regulatory Commission with 10CFR<br>overall company policies; FPL Topical Quality<br>general description of the quality instructions<br>Quality Procedures which establish the program a<br>within FPL which have responsibilities in the program | L Quality<br>sing com<br>50 Appe<br>Assurance<br>and p<br>and the or<br>am. | Assuranc<br>mitments t<br>ndix B; th<br>Report;<br>rocedure<br>ganization | e<br>o<br>e<br>a<br>s<br>s<br>s |

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|                     |                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                   | ·                                                           |                                                                    |                                    |
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|                     |                                 | GLOSSARY                                                                                                                                                                                                                                                   | Date                                                        | 11/8/9                                                             | 3                                  |
|                     | FPL                             | -                                                                                                                                                                                                                                                          | Page                                                        | 28 of                                                              | 42                                 |
|                     | 5.0 <u>DEFINITIONS</u> :        | (Cont'd)                                                                                                                                                                                                                                                   | ~ <del>.</del>                                              |                                                                    |                                    |
|                     | Quality Assurance<br>Program    | The policies and procedures for activities afferent activities established in documented form to meet spand the implementation of those policies and proced                                                                                                | cting qua<br>ecified re<br>ures.                            | ality <del>rolate</del><br>equirement                              | <del>sd</del><br>s;                |
|                     | Quality Assurance<br>Records    | Those records which furnish documentary evider items and of activities affecting quality.                                                                                                                                                                  | ice of the                                                  | e quality o                                                        | of                                 |
|                     | (2) Quality Control             | Those quality assurance actions related to the phys<br>material, structure, component or system, which<br>control the quality of the material, structure, com<br>predetermined requirements.                                                               | ical chara<br>provide<br>ponent o                           | acteristics of<br>a means t<br>or system t                         | or<br>:0<br>:0                     |
|                     | Quality Control<br>Notice (QCN) | Specific quality requirements which may be use<br>purchases. Each QCN identifies a particul<br>documentation requirement which may be app<br>documents. Each QCN is represented by a unique<br>number. Copies of the QCNs are available fro<br>Management. | ed for nu<br>ilar certi<br>lied to p<br>alphanu<br>m Nucles | iclear plar<br>ification oprocurement<br>meric code<br>ar Material | nt<br>or<br>nt<br>ss<br>ss         |
|                     | Quality Level 1                 | QL-1-items and services are subject to 10CFR-Part-2                                                                                                                                                                                                        | -1-require                                                  | ments.                                                             |                                    |
|                     |                                 | <u>QL-1-Procurement-Classification</u><br>This classification-shall-be-used-when-one-or-me<br>conditions-exist:                                                                                                                                            | <del>ore-of-th</del>                                        | <del>e followin</del>                                              | <del>5</del>                       |
|                     |                                 | <ol> <li>The item is for use in or in conjunction with a<br/>and the item or service does not meet the defini<br/>grade item.</li> </ol>                                                                                                                   | <del>safety rel</del><br>ition-of-a-                        | ated-syster<br>commercia                                           | ት<br>ሁ                             |
|                     |                                 | 2. It is desired to upgrade an item from QL-2,-3,<br>or-QL-3 for stock items that are known to<br>classification applications, including QL-1, e.g.<br>increased material control considerations.                                                          | or Not-Q<br>have mul<br>., for redu                         | <u>)L 1, QL 2</u><br>Itiple safet<br>Iced cost o                   | <del>},</del><br><del>y</del><br>¥ |
| - Stocked) Rev.1/89 | N<br>L                          | 3. For training, when associated with a basic com<br>paragraph 21.3(a)(1) of 10CFR-21 (for examination training, in service inspection (I<br>training).                                                                                                    | <del>iponent a</del><br>mple, nor<br>SI) or te              | <del>s defined i</del><br>ndestructiv<br>sting-(IST                | ₽<br>₽<br>}                        |
| Form 2719 (Non -    |                                 |                                                                                                                                                                                                                                                            |                                                             | •                                                                  |                                    |

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|                         |                                                   | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                               | <u></u>                |
|                         |                                                   | •                                                                                                                                                                                                                                                                                                                     | Rev.                                                                                        | 17 Dra                                                                                        | ft B                   |
| -<br>                   |                                                   | GLOSSARY                                                                                                                                                                                                                                                                                                              | Date                                                                                        | 11/8/9                                                                                        | 3                      |
|                         | <u> </u>                                          |                                                                                                                                                                                                                                                                                                                       | Page                                                                                        | 29 of                                                                                         | 42                     |
|                         | 5.0 <b>DEFINITIONS</b> :                          | (Cont'd)                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                               |                        |
|                         |                                                   | <ol> <li>The item is ASME Section III or Section XI.<br/>Quality-Related-items-and-services may be<br/>10CFR21-not-required-when engineering spectrum<br/>class is not-safety-related-and-the-purchase<br/>vendor's 10CFR 50 Appendix B-program.</li> </ol>                                                           | <del>procured</del><br>cifies the                                                           | l-QL-1-wit<br>at the safet<br>pecifies-th                                                     | ት<br><del>ን</del><br>Թ |
|                         | <del>Quality Level 2 -</del><br><del>(QL-2)</del> | QL 2-items are not subject to 10CFR21-by the vender<br>Basic-components that cannot-be-procured-QL-1-<br>acceptable program-and/or the vendor will not accept<br>is-no-alternate source, may-be-procured-QL-2-up<br>Grade-Dedication Package-process even-though-the<br>the definition of commercial grade.           | <del>)r</del><br>∙ <del>due-to-a</del><br>t <del>i 10CFR:<br/>sing-the-<br/>e-item-de</del> | - lack-of-a<br>21-and ther<br>Commercia<br>es not-me                                          | <del>2</del><br>유<br>유 |
|                         |                                                   | <u>QL-2-Procurement_Classification</u> :This_classification<br>when-one-of-the-following-conditions-exist:-                                                                                                                                                                                                           | <del>ition sho</del> i                                                                      | uld-be-use                                                                                    | ቀ                      |
|                         | ·                                                 | <ol> <li>The item is for use in or in conjunction with a<br/>and meets the definition of a commerc<br/>documentation (e.g., mill test reports, certific<br/>chemical or physical test reports, heat treat ce<br/>inspection, etc.) is required.</li> </ol>                                                            | <del>safety rel</del><br>i <del>al-grade</del><br>ation-of-<br>rtificatior                  | ated-syster<br>                                                                               | ት<br>ት<br>ት            |
|                         |                                                   | 2. The-item-is-for-use-in-or-in-conjunction-with-a-<br>and-meets-the-definition-of-a-commercial-<br>functional-or-material-characteristics-of-the-ite<br>upon-receipt-inspection-or-post-installation-testin                                                                                                          | <del>safety rel<br/>grade-ite<br/>m-cannol<br/>ng.</del>                                    | ated-syster<br>om-and-th<br>t-be-verifie                                                      | <del>ይ</del><br>ት      |
| x                       |                                                   | 3. The RPA Originator desires to upgrade<br>classification-from QL 3 or Not-QL-1, QL-2,<br>gain an FPL Quality Assurance audit and appr<br>program and a QC receiving inspection of<br>definition of commercial-grade item or to assur<br>approved by QA are used for the purchase.                                   | lethe <u>-</u><br>- <del>or-QL-3</del><br>·oval-of-t<br>anitem<br>·e-that-on                | <del>orocuremen<br/>-in-order-t</del><br><del>he-vendor'<br/>meeting-th<br/>ly-supplier</del> | ት<br>ት<br>ት<br>ት       |
|                         | Quality Level 3                                   | QL 3 items are not subject to 10CFR Part 21 by the-                                                                                                                                                                                                                                                                   | <del>vendor.</del>                                                                          |                                                                                               |                        |
| /89                     | (20)                                              | (QL_3)-Procurement-Classification: This classification one or more of the following conditions are met:                                                                                                                                                                                                               | <del>)n-may-be</del>                                                                        | -used-whe                                                                                     | ÷                      |
| 9 (Non - Stocked) Rev.] |                                                   | 1. The item is for use in, or in conjunction with, a<br>and-meets-the definition of a commercial gr<br>functional or material characteristics of the item<br>receipt by inspection or test. Therefore, if the a<br>cannot be completely dedicated by inspection a<br>after receipt, the item cannot be procured QL 3. | safety-rel<br>ade-item<br>⊢can-be-v<br>cceptance<br>nd/or-test                              | ated systen<br>                                                                               | ት<br>ይ<br>ቸ<br>ት       |
| Form 2715               |                                                   |                                                                                                                                                                                                                                                                                                                       |                                                                                             | <u>.</u>                                                                                      |                        |

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| <ul> <li>GLOSSARY</li> <li>GLOSSARY</li> <li>(Cont'd)</li> <li>Fire protection components and parts</li> <li>It-is-desired-to-upgrade-the-item from Not-Q obtain a Quality Control receiving inspection.</li> <li>NOTE: Documentation, if requested, is for com only; it may not be used as part of the acc</li> <li>On site safety related services performed-unce where Quality Control inspection/surveillance</li> <li>Basic components that <u>cannot</u> be procured Q lack of an acceptable program, and/or the very CFR-21 and there is no alternate QL 1 source using the Commercial Grade Dedication Pack</li> </ul> | Rev. 17 Draft B<br>Date 11/8/93<br>Page 30 of 42<br>Page 30 of 42<br>P                                 |
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| GLOSSARY<br>(Cont'd)<br>2. Fire protection components and parts<br>3. It-is-desired-to-upgrade-the-item from-Not-Q<br>obtain a Quality Control receiving-inspection.<br>NOTE: Documentation, if-requested, is-for-com<br>only;-it may not be-used as part of the acc<br>4. On site safety-related services-performed-und<br>where Quality Control inspection/surveillance<br>5. Basic-components-that <u>cannot</u> be-procured (<br>lack-of an-acceptable-program, and/or-the-ver<br>CFR-21-and-there is no alternate QL-1 source<br>using the Commercial Grade Dedication Pack                                               | Page 30 of 4<br>Page 30 of 4<br>Pa                                                                                                                                                                                   |
| <ul> <li>GLOSSARY</li> <li>(Cont'd)</li> <li>2. Fire protection components and parts</li> <li>3. It-is-desired-to-upgrade-the-item from-Not-Q obtain a Quality Control receiving-inspection.</li> <li>NOTE: Documentation, if requested, is-for-com only; it may not be used as part of the acc</li> <li>4. On site safety related services performed-unc where Quality Control inspection/surveillance</li> <li>5. Basic-components-that cannot be procured (lack of an acceptable program, and/or the very CFR-21-and there is no alternate QL 1 source using the Commercial Grade Dedication Pack</li> </ul>                | Page 30 of 4<br>Page |
| <ul> <li>(Cont'd)</li> <li>2. Fire protection components and parts</li> <li>3. It is desired to upgrade the item from Not Q obtain a Quality Control receiving inspection.</li> <li>NOTE: Documentation, if requested, is for com only; it may not be used as part of the acc</li> <li>4. On site safety related services performed und where Quality Control inspection/surveillance</li> <li>5. Basic components that <u>cannot</u> be procured (lack of an acceptable program, and/or the very CFR-21-and there is no alternate QL 1 source using the Commercial Grade Dedication Pack</li> </ul>                           | Page 30 of 4<br>Page |
| <ul> <li>(Cont'd)</li> <li>2. Fire protection components and parts</li> <li>3. It-is-desired-to-upgrade-the-item from Not-Q obtain a Quality Control receiving inspection.</li> <li>NOTE: Documentation, if requested, is for com only; it may not be used as part of the acc</li> <li>4. On site safety related services performed-unc where Quality Control inspection/surveillance</li> <li>5. Basic components that <u>cannot</u> be procured (lack of an acceptable program, and/or the very CFR-21-and there is no alternate QL 1 source using the Commercial Grade Dedication Pack</li> </ul>                           | L-1, QL 2, or QL 3 to<br>mercial considerations<br>eptance.<br>der FPL's QA Program<br>e is required.<br>QL-1 or QL 2 due to a<br>ndor-will-not accept 10<br>may be procured QL 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <ul> <li>NOTE: Documentation, if requested, is for cononly; it may not be used as part of the accondy; it may not be used as part of the accondy.</li> <li>On site safety related services performed und where Quality Control inspection/surveillance</li> <li>Basic components that <u>cannot</u> be procured (lack of an acceptable program, and/or the very CFR-21 and there is no alternate QL 1 source using the Commercial Grade Dedication Pack</li> </ul>                                                                                                                                                             | nmercial considerations<br>eptance.<br>ler-FPL's QA Program<br>e is required.<br>QL-1 or QL 2 due to a<br>ndor-will not accept 10<br>may be procured QL 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul> <li>On site safety related services performed und<br/>where Quality Control inspection/surveillance</li> <li>Basic components that <u>cannot</u> be procured (<br/>lack of an acceptable program, and/or the ver<br/>CFR-21-and there is no alternate QL 1 source<br/>using the Commercial Grade Dedication Pack</li> </ul>                                                                                                                                                                                                                                                                                               | der-FPL's QA Program<br>e is required.<br>QL-1 or QL 2 due-to-a<br>ndor-will not accept 10<br>may be procured QL-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5. Basic-components-that <u>cannot</u> be procured (<br>lack-of an-acceptable program, and/or-the-ver<br>CFR-21-and there is no alternate QL-1 source<br>using the Commercial-Grade Dedication Pack                                                                                                                                                                                                                                                                                                                                                                                                                            | QL-1-or-QL-2-due-to-a<br>ndor-will not accept-10<br>-may be procured QL-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>ago.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| This title refers, collectively or in part, to the Beach, Quality Manager St. Lucie or the Quality M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quality Manager Juno<br>Ianager Turkey Point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Quality Related is defined as those items of structures, systems or components which are not so one or more of the following categories:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | or related services<br>safety related and are in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ol> <li>Equipment, components and structures desirequirements or whose failure could:         <ol> <li>(1) damage safety related equipment such that be prevented from performing its safety fut</li> <li>(2) result in releases exceeding the exposure a Specifications.</li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                              | igned to meet seismic<br>at the equipment would<br>unction or<br>guidelines of Technical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ol> <li>Fire protection equipment         <ol> <li>(1) required to protect safety related equipment</li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | nt,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| (2) whose failure could result in water dama<br>equipment which could prevent the equip<br>its safety function,<br>or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | age to safety related ment from performing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (3) required to maintain the integrity of a find protect safety related equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | re barrier necessary to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul> <li>Beach, Quality Manager St. Lucie or the Quality N</li> <li>Quality Related is defined as those items or structures, systems or components which are not stone or more of the following categories:</li> <li>1. Equipment, components and structures des requirements or whose failure could: <ul> <li>(1) damage safety related equipment such that be prevented from performing its safety for</li> <li>(2) result in releases exceeding the exposure Specifications.</li> </ul> </li> <li>2. Fire protection equipment <ul> <li>(1) required to protect safety related equipment or</li> <li>(2) whose failure could result in water dama equipment which could prevent the equip its safety function, or</li> <li>(3) required to maintain the integrity of a fiprotect safety related equipment.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| 5.0 DEFINITIONS:                      | <ul> <li>GLOSSARY</li> <li>(Cont'd)</li> <li>A partial or total loss of function of a r<br/>system that could result in an accidental, unp<br/>release of radioactivity exceeding Technical S</li> <li>Equipment whose failure under normal ope<br/>anticipated transient, results in: <ol> <li>exceeding a safety limit specified in the T<br/>or</li> <li>initiation of a FSAR Design Basis Accide<br/>or</li> <li>the reactor coolant system not being in<br/>condition while operating or shutdown</li> </ol> </li> </ul>                   | Rev.<br>Date<br>Page<br>radioactive o<br>blanned, or to<br>pecification<br>erating cond<br>rechnical Sp<br>ent, | 17 Draft<br>11/8/93<br>31 of<br>confinement<br>uncontrolled<br>n limits.<br>litions or an<br>pecifications, |
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| 5.0 DEFINITIONS:                      | <ul> <li>GLOSSARY</li> <li>GLOSSARY</li> <li>(Cont'd)</li> <li>A partial or total loss of function of a r<br/>system that could result in an accidental, unp<br/>release of radioactivity exceeding Technical S</li> <li>Equipment whose failure under normal ope<br/>anticipated transient, results in: <ol> <li>exceeding a safety limit specified in the T<br/>or</li> <li>initiation of a FSAR Design Basis Accide<br/>or</li> <li>the reactor coolant system not being in<br/>condition while operating or shutdown</li> </ol> </li> </ul> | Page<br>Page<br>Page<br>planned, or u<br>Specification<br>erating cond<br>echnical Sp<br>ent,                   | 11/8/93<br>31 of<br>confinement<br>uncontrolled<br>n limits.<br>litions or an<br>pecifications,             |
| 5.0 DEFINITIONS:                      | <ul> <li>3. A partial or total loss of function of a resystem that could result in an accidental, unprelease of radioactivity exceeding Technical S</li> <li>4. Equipment whose failure under normal operanticipated transient, results in: <ul> <li>(1) exceeding a safety limit specified in the Tor</li> <li>(2) initiation of a FSAR Design Basis Accide or</li> <li>(3) the reactor coolant system not being in condition while operating or shutdown</li> </ul> </li> </ul>                                                               | Page<br>radioactive o<br>planned, or a<br>Specification<br>erating cond<br>rechnical Sp<br>ent,                 | 31 of<br>confinement<br>uncontrolled<br>n limits.<br>litions or an<br>pecifications,                        |
| 5.0 DEFINITIONS:                      | <ul> <li>(Cont'd)</li> <li>3. A partial or total loss of function of a r<br/>system that could result in an accidental, unp<br/>release of radioactivity exceeding Technical S</li> <li>4. Equipment whose failure under normal ope<br/>anticipated transient, results in: <ul> <li>(1) exceeding a safety limit specified in the T<br/>or</li> <li>(2) initiation of a FSAR Design Basis Accide<br/>or</li> <li>(3) the reactor coolant system not being in<br/>condition while operating or shutdown</li> </ul> </li> </ul>                   | radioactive o<br>lanned, or t<br>Specification<br>erating cond<br>echnical Sp<br>ent,                           | confinement<br>uncontrolled<br>n limits.<br>litions or an<br>pecifications,                                 |
| ·                                     | <ol> <li>A partial or total loss of function of a resystem that could result in an accidental, unprelease of radioactivity exceeding Technical S</li> <li>Equipment whose failure under normal operanticipated transient, results in:         <ol> <li>(1) exceeding a safety limit specified in the Tor</li> <li>(2) initiation of a FSAR Design Basis Accide or</li> <li>(3) the reactor coolant system not being in condition while operating or shutdown</li> </ol> </li> </ol>                                                             | radioactive o<br>planned, or a<br>pecification<br>rating cond<br>rechnical Sp<br>ent,                           | confinement<br>uncontrolled<br>n limits.<br>litions or an<br>pecifications,                                 |
| •                                     | <ul> <li>4. Equipment whose failure under normal operanticipated transient, results in:</li> <li>(1) exceeding a safety limit specified in the T or</li> <li>(2) initiation of a FSAR Design Basis Accide or</li> <li>(3) the reactor coolant system not being in condition while operating or shutdown</li> </ul>                                                                                                                                                                                                                              | erating cond<br>dechnical Sp<br>ent,                                                                            | litions or an                                                                                               |
| •                                     | <ol> <li>(1) exceeding a safety limit specified in the T or</li> <li>(2) initiation of a FSAR Design Basis Accide or</li> <li>(3) the reactor coolant system not being in condition while operating or shutdown</li> </ol>                                                                                                                                                                                                                                                                                                                      | echnical Sp<br>ent,                                                                                             | ecifications,                                                                                               |
| ·<br>·<br>·                           | <ul> <li>(2) initiation of a FSAR Design Basis Accide<br/>or</li> <li>(3) the reactor coolant system not being in<br/>condition while operating or shutdown</li> </ul>                                                                                                                                                                                                                                                                                                                                                                          | ent,                                                                                                            |                                                                                                             |
|                                       | (5) the reactor coolant system not being in<br>condition while operating or shutdown                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                 |                                                                                                             |
| · · · · · · · · · · · · · · · · · · · | containing of shuidowil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a controlle                                                                                                     | d or design                                                                                                 |
|                                       | 5. Instrumentation, equipment, components, or be operable by the Technical Specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | r structures                                                                                                    | required to                                                                                                 |
| ,                                     | <ol> <li>Instrumentation that is essential to preventing<br/>of radioactive material to the environment v<br/>guidelines of Technical Specifications.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                | g or monito<br>vhich could                                                                                      | oring release<br>l exceed the                                                                               |
| Quality Verification<br>Functions     | The act of examining, reviewing, inspecting, testi<br>or otherwise verifying and documenting that a a<br><b>quality</b> quality related activity has been perform<br>specified requirements.                                                                                                                                                                                                                                                                                                                                                    | ng, checkin<br>n activity<br>ned in accor                                                                       | ng, auditing,<br>affecting<br>rdance with                                                                   |
| Reactor Coolant<br>Pressure Boundary  | Reactor coolant pressure boundary means all the components such as pressure vessels, piping, pur are:                                                                                                                                                                                                                                                                                                                                                                                                                                           | ose pressure<br>mps, and va                                                                                     | e containing<br>alves which                                                                                 |
|                                       | 1. part of the reactor coolant system or,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 | ,                                                                                                           |
| 1                                     | 2. connected to the reactor coolant system up to all of the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | and includ                                                                                                      | ing any and                                                                                                 |
|                                       | <ol> <li>the outermost containment isolation va<br/>which penetrates primary reactor containment</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                     | alve in sys<br>nent,                                                                                            | tem piping                                                                                                  |
|                                       | <ul><li>2) the second of two valves normally closed operation in system piping which does reactor containment,</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                        | l during nor<br>not penetra                                                                                     | rmal reactor<br>ate primary                                                                                 |

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| ſ              |                                  | QUALITY ASSURANCE MANUAL                                                                                                                                                        |                                                                                                                                                                                                                                                                                       |                                           |               |
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|                |                                  |                                                                                                                                                                                 | Rev.                                                                                                                                                                                                                                                                                  | 17 Dra                                    | lft B         |
|                |                                  | GLOSSARY                                                                                                                                                                        | Date                                                                                                                                                                                                                                                                                  | 11/8/9                                    | 93            |
|                | FPL                              |                                                                                                                                                                                 | Rev.<br>Date<br>Page<br>valves.<br>l functio<br>perform<br>of the o<br>A records<br>ed opera<br>ondary a<br>calibratio<br>or that pro<br>ssued <del>op</del><br>which ar<br>ecific pa<br>obability<br>for a stat<br>stic to a c<br>cliably an<br>obability an<br>obability for a stat | 32 of                                     | 42            |
|                | 5.0 <u>DEFINITIONS</u> :         | (Cont'd)                                                                                                                                                                        |                                                                                                                                                                                                                                                                                       |                                           |               |
|                |                                  | 3) the reactor coolant system safety and relief                                                                                                                                 | valves.                                                                                                                                                                                                                                                                               |                                           |               |
|                | (1) Receiving<br>(4)             | Taking delivery of an item at a designated location.                                                                                                                            |                                                                                                                                                                                                                                                                                       |                                           |               |
|                | Redundant Equipment<br>or System | An equipment or system that duplicates the essential<br>equipment or system to the extent that either may<br>function regardless of the state of operation or failur            | al functio<br>perform<br>e of the o                                                                                                                                                                                                                                                   | on of anoth<br>the require<br>other.      | er<br>ed      |
| ,              | Records Center                   | An information center for the storage of duplicate Q                                                                                                                            | A records                                                                                                                                                                                                                                                                             | 5.                                        |               |
|                | Record Design                    | Current approved design configuration of a licens power plant.                                                                                                                  | sed opera                                                                                                                                                                                                                                                                             | ating nucle                               | ar            |
|                | Record Tracing                   | The master of the FPL approved record design.                                                                                                                                   |                                                                                                                                                                                                                                                                                       |                                           |               |
| -              | Record Drawing                   | A copy of the record tracing.                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |                                           |               |
|                | Reference Standards              | Standards of prescribed accuracy (ie., primary, sec<br>standards, where appropriate) that are used in a<br>These standards establish the basic accuracy limits for              | condary a<br>calibration<br>or that pro                                                                                                                                                                                                                                               | and workin<br>on program<br>ogram.        | ng<br>n.      |
|                | Regulatory Guides                | A continuing series of NRC publications that are in describe and make available to the public, methods to the NRC Regulatory staff for implementing spregulations.              | ssued <del>sp</del><br>which an<br>becific pa                                                                                                                                                                                                                                         | oradically f<br>re acceptab<br>arts of NR | to<br>le<br>C |
|                | Reliability                      | The characteristics of an item expressed by the pr<br>perform a required function under stated conditions<br>time.                                                              | robability<br>for a stat                                                                                                                                                                                                                                                              | y that it wi<br>ted period o              | ll<br>of      |
|                | (1) Repair<br>(4)                | The process of restoring a nonconforming characteri<br>such that the capability of an item to function re<br>unimpaired, even though that item still may not co<br>requirement. | stic to a c<br>eliably a<br>nform to                                                                                                                                                                                                                                                  | condition<br>nd safely<br>the origina     | is<br>al      |
| ev.1/89        | Reportable Event                 | An event of the type defined in the Code of Federal 50.73) requiring submittal of a Licensee Event I Nuclear Regulatory Commission (NRC).                                       | Regulatio<br>Report (l                                                                                                                                                                                                                                                                | ons (10 CF.<br>LER) to th                 | R<br>le       |
| n - Stocked) R | Requirement                      | A mandatory action, denoted by the word "shall'<br>Guideline). Requirements are typically based on st<br>but may be internally generated within the Company                     | ' (See c<br>atutes or                                                                                                                                                                                                                                                                 | lefinition of regulation                  | of<br>s,      |
| Form 2719 (Nc  |                                  | •                                                                                                                                                                               |                                                                                                                                                                                                                                                                                       |                                           |               |

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|                                                                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                      |                                  |
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|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                         | Rev.                                                                                             | 17 Dra                                                                                               | ft B                             |
|                                                                           | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                | Date                                                                                             | 11/8/9                                                                                               | 93                               |
| FPL                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         | Page                                                                                             | 33 of                                                                                                | 42                               |
| 5.0 <b>DEFINITIONS</b> :                                                  | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                      |                                  |
| Requisition and<br>Purchasing Authorization<br>(RPA)                      | A document that is prepared to identify and obtain<br>for the purchase of items/services. The term RPA<br>the Form 1 & 2 RPA, the Contract Change Order<br>Action Report (BAR). Form 1 is intended for non<br>services, and is usually initiated for the requisition<br>specific work order. Form 2 is a computer gener<br>item maintained in Material and Supplies inventor<br>quantities of the item. | a managem<br>A includes<br>(CCO), an<br>-inventoria<br>of an item,<br>rated requi<br>y printed t | ent approv<br>revisions on<br>the Buy<br>ed items ar<br>service for<br>sition for a<br>o requisition | al<br>of<br>er<br>nd<br>an<br>on |
| Request for Bid/<br>Request for<br>Quotation/<br>Request for<br>Proposals | Invitation to prospective contractor or supplier to p requisitioned materials, goods, or services.                                                                                                                                                                                                                                                                                                      | rovide a pr                                                                                      | roposal for                                                                                          |                                  |
| Responsible Organization                                                  | An organization which is in direct charge of the equation actually engaged in an operation.                                                                                                                                                                                                                                                                                                             | ipment an                                                                                        | d manpow                                                                                             | er                               |
| (3) Review                                                                | A deliberately critical examination; including<br>monitoring of plan operation, formal independent<br>contemplated actions, and after-the-fact invest<br>conditions.                                                                                                                                                                                                                                    | , but not<br>evaluatio<br>igations o                                                             | limited to<br>ns of certai<br>of abnorma                                                             | o,<br>in<br>al                   |
| (1) Rework                                                                | The process by which a nonconforming item is prior specified requirement by completion, remach other corrective means.                                                                                                                                                                                                                                                                                  | made to c<br>ining, reas                                                                         | onform to<br>sembling o                                                                              | a<br>or                          |
| Rigging Equipment                                                         | Equipment used to connect handling equipment to a slings, shackles, turnbuckles, special tools, etc.                                                                                                                                                                                                                                                                                                    | an item. T                                                                                       | This include                                                                                         | es                               |
| (4)Right of Access                                                        | The right of a Purchaser or designated representativ<br>of a Supplier for the purpose of inspection, su<br>assurance audit.                                                                                                                                                                                                                                                                             | e to enter<br>prveillance                                                                        | the premise<br>, or qualit                                                                           | es<br>Xy                         |
| Safe Load Path                                                            | A path defined for transport of a heavy load that<br>effects, if the load is dropped, in terms of releases<br>and damage to safety systems. This path sha<br>controlled by procedures or instructions and/or ske<br>may also be enforced by mechanical stops and/or el                                                                                                                                  | will minir<br>of radioac<br>all be adn<br>etches and<br>ectrical int                             | nize advers<br>tive materia<br>inistrativel<br>training.<br>erlocks.                                 | se<br>al<br>y<br>It              |
| Safety Evaluation                                                         | A written record which provides the basis for the<br>plant change or modification, test or experiment do                                                                                                                                                                                                                                                                                                | determina<br>es or does                                                                          | tion that th<br>not involv                                                                           | e<br>re                          |

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|                    |                                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                             |
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|                    |                                           |                                                                                                                                                                                                                                                                                                                                                                        | Rev.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 17 Drat                                                                           | ft B                        |
|                    |                                           | GLOSSARY                                                                                                                                                                                                                                                                                                                                                               | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11/8/9                                                                            | 3                           |
|                    | FPL                                       |                                                                                                                                                                                                                                                                                                                                                                        | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 34 of                                                                             | 42                          |
| 5.                 | 0 <b>DEFINITIONS</b> :                    | (Cont'd)                                                                                                                                                                                                                                                                                                                                                               | QUALITY ASSURANCE MANUAL       Rev. 17 Draft B         GLOSSARY       Date       11/8/93         Page       34 of       42         utd)       rd)       rd)         ts (placed upon important process variables) which are necessary to anably protect the integrity of those physical barriers that are ding against uncontrolled release of radioactivity.         ts (placed upon important process variables) which are necessary to anably protect the integrity of those physical barriers that are ding against uncontrolled release of radioactivity.         te plant features necessary to assure the integrity of the reactor and tain it in a safely shutdown condition, or the capability to prevent or gate the consequences of accidents which could result in off-site sures comparable to the guideline exposure described in 10 CFR 100, "Reactor Site Criteria".         earthquake which is based upon an evaluation of the maximum quake potential considering the regional and local geology, nology and specific characteristics of load subsurface material. It is auritouake which produces the maximum vibratory ground motion which certain structures, systems, and components are designed to in functional (Seismic Category I). SSE has commonly been red to as the "Design Basis Earthquake".         performance by a supplier.       e structures, systems, and components that should be designed to in functional if the Safe Shutdown Earthquake (SSE) occurs.         extermined control setting, at which point a bistable device changes to indicate that the parameter being controlled has reached the ted value.         used to denote a requirement.       used to denote a requirement. |                                                                                   |                             |
| Sa                 | afety Limits                              | Limits (placed upon important process variables) where reasonably protect the integrity of those physic guarding against uncontrolled release of radioactivity                                                                                                                                                                                                         | ich are r<br>al barrie<br>'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | necessary ters that an                                                            | io<br>re                    |
| Sa                 | afety Related                             | Those plant features necessary to assure the intercoolant pressure boundary, the capability to shutd maintain it in a safely shutdown condition, or the carmitigate the consequences of accidents which courexposures comparable to the guideline exposure de Part 100, "Reactor Site Criteria".                                                                       | egrity of<br>own the<br>pability to<br>ild result<br>escribed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | the reactor<br>reactor and<br>prevent of<br>in off-sit<br>in 10 CFI               | or<br>d<br>or<br>e<br>R     |
| Sa<br>Ea           | afe Shutdown<br>arthquake (SSE)           | That earthquake which is based upon an evaluati<br>earthquake potential considering the regional a<br>seismology and specific characteristics of load subst<br>that earthquake which produces the maximum vibra<br>for which certain structures, systems, and compon<br>remain functional (Seismic Category I). SSE h<br>referred to as the "Design Basis Earthquake". | on of the<br>ind loca<br>inface ma<br>atory gro<br>ents are of<br>as comn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | e maximur<br>il geology<br>aterial. It i<br>und motio<br>designed to<br>nonly bee | n<br>7,<br>s<br>n<br>o<br>n |
| Se                 | ervices                                   | The performance by a supplier.                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                             |
| Se                 | ismic Category I                          | Those structures, systems, and components that sh remain functional if the Safe Shutdown Earthquake (                                                                                                                                                                                                                                                                  | ould be o<br>SSE) occ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | designed to<br>urs.                                                               | D                           |
| Se                 | tpoint                                    | A predetermined control setting, at which point a bis<br>state to indicate that the parameter being controll<br>selected value.                                                                                                                                                                                                                                        | table dev<br>led has r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ice change<br>eached the                                                          | s<br>e                      |
| Sh                 | all                                       | It is used to denote a requirement.                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                             |
| Sh                 | ould                                      | It is used to denote a recommendation.                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                             |
| Stocked) Rev. 1/89 | gnificant Conditions<br>lverse To Quality | Failures, malfunctions, deficiencies or deviation<br>equipment and other nonconformances which<br>evaluation for reportability as 10 CFR 50.55(e), 10 C<br>21 deficiencies. In addition to correcting the im<br>corrective action for such nonconforming condition<br>document the cause and include action to preclude rep                                            | ns in m<br>require e<br>R 50.73<br>Imediate<br>Is shall id<br>petition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | aterial and<br>or 10 CFF<br>condition<br>dentify and                              |                             |
| Form 2719 (Non     |                                           |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                             |

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|                                                   | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |                                                                                          |                                 |
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|                                                   | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                              | Date                                                                            | 11/8/9                                                                                   | 3                               |
| FPL                                               |                                                                                                                                                                                                                                                                                                                                                                                       | Page                                                                            | 35 of                                                                                    | 42                              |
| 5.0 <b>DEFINITIONS</b> :                          | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |                                                                                          |                                 |
| Significant Deficiency                            | A deficiency, which, to have remained uncorrected<br>adversely the safety of operations of the nuclear<br>deficiencies are reportable to the NRC as delineated<br>Significant deficiencies include, but are not limited<br>any portion of the quality assurance program;<br>conforming to established criteria; faulty constru<br>structure, system, or component; and deviation from | , could h<br>power p<br>in 10 CF<br>to, a br<br>final de<br>ction; d<br>perform | ave affecte<br>lant. Thes<br>R 50.55(e)<br>eakdown i<br>esign(s) no<br>amage to<br>ance. | ed<br>je<br>j.<br>in<br>ot<br>a |
| Significant Incident                              | Any incident which is reportable to the NRC in requirements of 10 CFR 50.55(e), Regulatory Appendices A & B (Technical Specifications) of the Such incidents usually involve safety implications.                                                                                                                                                                                     | accordar<br>Guide<br>Operat                                                     | nce with th<br>1.16, an<br>ing Licenso                                                   | e<br>d<br>e.                    |
| Single Failure                                    | Includes such events as the shorting or open-circuitir<br>signal or power cables. It also includes single cred<br>events that cause a member of consequential com<br>channel failures; e.g., the overheating of an amplifier<br>"single failure" even though several transistor fa<br>Mechanical damage to a mode switch would be a "sin<br>several channels might become involved.   | ng of inte<br>lible mal<br>ponent,<br>r module<br>ilures m<br>gle failu         | erconnectin<br>functions o<br>module, o<br>would be<br>ight result<br>re" althoug        | g<br>or<br>a<br>t.<br>h         |
| Software Design<br>Description                    | A technical description of how the software will meet<br>forth in the Software Requirements Specificati<br>component algorithms, control logic, data struct<br>information, input/output formats, and interface description                                                                                                                                                           | the requ<br>on (e.g.<br>tures, d<br>riptions).                                  | irements se<br>system o<br>lata set-us                                                   | et<br>r<br>e                    |
| Software Requirements<br>Specification            | Identifies the requirements for a system or syster<br>functions, performance, design constraints, interface<br>standards).                                                                                                                                                                                                                                                            | n compo<br>(s) and d                                                            | onent (e.g.<br>levelopmen                                                                | ,<br>t                          |
| Software<br>Verification and<br>Validation Plan   | Identifies the tasks, methods, and criteria for accom<br>and validation of the software and all test documentation                                                                                                                                                                                                                                                                    | plishing<br>ion requi                                                           | verification<br>red.                                                                     | n                               |
| Software<br>Verification and<br>Validation Report | Documents the results of the execution of the Softw<br>Validation Plan; identifies any major deficiencies fou<br>results of reviews, audits, and tests and whether the s<br>operational use.                                                                                                                                                                                          | are Veri<br>nd and p<br>software                                                | fication and<br>provides the<br>is ready for                                             | l<br>r                          |
| Form                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |                                                                                          | F                               |

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|                       |                                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                      |                                                                                        |                                                                         |                  |  |  |
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|                       |                                                 |                                                                                                                                                                                                                                                                                                               | Rev.                                                                                   | 17 Drai                                                                 | ît B             |  |  |
|                       |                                                 | GLOSSARY                                                                                                                                                                                                                                                                                                      | Date                                                                                   | 11/8/93                                                                 | 3.               |  |  |
|                       | FPL                                             |                                                                                                                                                                                                                                                                                                               | Page                                                                                   | 36 of                                                                   | 42               |  |  |
|                       | 5.0 <u>DEFINITIONS</u> :                        | (Cont'd)                                                                                                                                                                                                                                                                                                      |                                                                                        |                                                                         |                  |  |  |
|                       | Source Inspection                               | The inspection of a product by FPL or its desi<br>supplier's plant, prior to shipment.                                                                                                                                                                                                                        | ignated a                                                                              | igent at th                                                             | e                |  |  |
|                       | Source Material                                 | Uranium or thorium, or any combination thereof,<br>chemical form; or, ores which contain by weight of<br>percent (0.05%) or more of uranium, thorium,<br>thereof. Source material does not include special nuc                                                                                                | , in any<br>one-twen<br>or any o<br>lear mate                                          | physical o<br>tieth of on<br>combination<br>rial.                       | e<br>n           |  |  |
|                       | (1) Source<br>Surveillance                      | A review, observation, or inspection for the purpose<br>action has been accomplished as specified at the<br>procurement or manufacture.                                                                                                                                                                       | e of verif<br>location                                                                 | ying that an<br>of materia                                              | n<br>1           |  |  |
|                       | Special Nuclear<br>Material                     | Plutonium, uranium 233, uranium enriched in the i<br>isotope 235, and any other material which the Com<br>the provisions of section 51 of the Atomic En<br>determines to be special nuclear material, but does<br>material; or any material artificially enriched by any<br>does not include source material. | sotope 2<br>mission,<br>lergy Ac<br>s not inc<br>of the fo                             | 33 or in the<br>pursuant to<br>t of 1954<br>lude source<br>regoing bu   | e<br>D<br>C<br>t |  |  |
|                       | Special Processes                               | Those processes which must be qualified and contro<br>highly dependent on close control of process variable<br>and objective verifications of end quality (inspect<br>testing) is difficult.                                                                                                                  | ontrolled where quality is<br>triables or operator skills;<br>spection, examination or |                                                                         |                  |  |  |
|                       | •<br>•                                          | As a further clarification, special processes identified<br>and standards shall be controlled, qualified a<br>accordance with those codes and standards. E<br>processes include (but are not limited to) welding<br>nondestructive examination, and special nuclear clean                                     | l by appli<br>nd impl<br>xamples<br>, heat tr<br><del>ing</del> .                      | cable code<br>emented in<br>of specia<br>eating and                     | s<br>1<br>1<br>1 |  |  |
|                       |                                                 | Flushing, protective coating, and plating applications, and nuclear cleaning should be reviewed to determine if they are special processes.                                                                                                                                                                   |                                                                                        |                                                                         |                  |  |  |
| n - Stocked) Rev.1/89 | Special Quality<br>Assurance<br>Document (SQAD) | Standardized quality requirements which are frequent<br>related purchases. Each SQAD defines a particular ch<br>characteristics which are commonly applied to n<br>documents. They are intended as a convenience to to<br>inclusion in RPAs and POs. Copies of SQADs<br>Nuclear Materials Management.         | ly used for<br>haracteris<br>uclear p<br>the users<br>are ava                          | or nuclear<br>tic or set of<br>rocurement<br>for ease of<br>ilable from |                  |  |  |
| Form 2719 (No         |                                                 | •<br>-                                                                                                                                                                                                                                                                                                        |                                                                                        |                                                                         |                  |  |  |

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|                    |                                    | QUALITY ASSURANCE MANUAL                                                                                                                                                                     |                                     |                                              |                |
|                    |                                    |                                                                                                                                                                                              | Rev.                                | 17 Drat                                      | ft B           |
|                    |                                    | GLOSSARY                                                                                                                                                                                     | Date 11/8/93                        |                                              |                |
|                    | FPL                                |                                                                                                                                                                                              | Page                                | 37 of                                        | 42             |
|                    | 5.0 <u>DEFINITIONS</u> :           | (Cont'd)                                                                                                                                                                                     |                                     |                                              |                |
|                    | (1) Specification                  | A concise statement of a set of requirements to be sa<br>a material, or process; indicating, whenever appropri<br>means of which it may be determined whether the re<br>satisfied.           | atisfied t<br>ate, the j<br>quireme | by a produc<br>procedure b<br>nts given ar   | t,<br>by<br>re |
|                    | Start-Up Tests                     | Tests that are performed after initial fuel loading a several power level plateaus to 100% power.                                                                                            | and proc                            | eed throug                                   | h              |
|                    | Stop Work Order                    | Management order to stop all work or plant operation order.                                                                                                                                  | ons as d                            | efined in th                                 | e              |
|                    | Stop Work Request                  | Request to management to issue a Stop Work Order.                                                                                                                                            |                                     |                                              |                |
|                    | (2) Storage                        | That period following the release of an item for shi<br>for start-up or preoperational testing. This includes i                                                                              | pment u<br>n-place :                | ntil turnove<br>storage.                     | er             |
|                    | Storage<br>Facilities              | Warehouse or yard area designated and prepared for                                                                                                                                           | the hold                            | ing of items                                 |                |
|                    | Subassembly                        | A replaceable combination of parts which is an eleme                                                                                                                                         | ent of an                           | assembly.                                    |                |
|                    | Substantial Safety<br>Hazard       | A loss of safety function to the extent that there is a m<br>degree of protection provided to public health and sa<br>or activity licensed under applicable Parts of Title 1<br>Regulations. | najor red<br>afety for<br>10, Cod   | uction in the<br>any facility<br>e of Federa | e<br>y<br>ll   |
|                    | (1) Subsystem                      | A group of assemblies or components or both, consingle function.                                                                                                                             | nbined t                            | o perform a                                  | <b>a</b> .     |
|                    | Subtier Procurement                | Procurement by a supplier from a subsupplier of item                                                                                                                                         | ns or serv                          | vices.                                       |                |
|                    | (3) Supervision                    | Direction of activities of personnel or monitorin<br>functions through a supervisor who is responsible<br>the activities he directs or monitors.                                             | g of a<br>and acc                   | function of ountable for                     | r<br>r         |
| ) Rev.1/89         | Supplier                           | Any individual or organization under contract for<br>services. "Supplier" encompasses the terms Vendor<br>Subcontractor, Fabricator, Consultant, and lower tier                              | furnishi<br>, Seller,<br>levels.    | ng items o<br>Contractor                     | r<br>,         |
| 719 (Non - Stocked | Supplier Deviation<br>Notice (SDN) | Notification by a supplier of a deviation or discrepand<br>contracted quality and/or technical requirements o<br>/contract.                                                                  | cy with p<br>f a pur                | regard to the<br>chase order                 | e<br>r         |
| Form 2             |                                    |                                                                                                                                                                                              |                                     |                                              |                |

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|                                         | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                          |                                                                      |                                                                    |                       |
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|                                         | GLOSSARY                                                                                                                                                                                                                                                                                          | Date                                                                 | 11/8/9                                                             | 93                    |
| FPL                                     |                                                                                                                                                                                                                                                                                                   | Page                                                                 | 38 of                                                              | 42                    |
| 5.0 <b>DEFINITIONS</b> :                | (Cont'd)                                                                                                                                                                                                                                                                                          |                                                                      |                                                                    |                       |
| Supplier Facility<br>Evaluation (Audit) | An evaluation by a-Principal Lead Auditor of supplier's Quality Assurance Program and the fir product of acceptable quality.                                                                                                                                                                      | the effect<br>m's ability                                            | iveness of<br>to supply                                            | a<br>a                |
| Supplier Reviewer                       | A Principal Lead Auditor, a Quality Engineer or or designated by the Quality Manager Juno Beach to the acceptability of a supplier, based upon the result                                                                                                                                         | other indiv<br>review an<br>its of an ev                             | idual who<br>d determin<br>aluation.                               | is<br>ne              |
| Surveillance                            | The physical presence to monitor by observation the (including requirements for data, records, and lot they are performed in a specified manner.                                                                                                                                                  | he designa<br>ogging), to                                            | ted activition assure th                                           | es<br>at              |
| (3) Surveillance<br>Testing             | Periodic testing to verify that safety related structure components items affecting quality continue to the state of readiness necessary to perform their safet                                                                                                                                   | uctures, sy<br>function o<br>ety functio                             | y <del>stems, ar</del><br>or remain i<br>on.                       | <del>nd</del> -<br>in |
| (2) System<br>(3)                       | An integral part of a nuclear power plant comprised<br>al or mechanical components (or combinations<br>operated as a separate entity to perform a specific fu                                                                                                                                     | of electric<br>thereof) t<br>unction.                                | al, electric<br>hat may l                                          | -<br>)e               |
| (1) System Performance<br>Test          | A test performed on a completed system<br>instrumentation, controls, fluid and mechanical sub<br>or simulated normal process conditions such as ter<br>and pressure.                                                                                                                              | includin<br>osystems u<br>nperature,                                 | g electric<br>nder norm<br>flow, leve                              | c,<br>al<br>21,       |
| Technical Evaluation                    | An evaluation performed to assure that the conspecified for procured items. The Technical Ex<br>Grade Dedication (when required) and Item Eq<br>(when required) are controlled as one docum<br>procurement specification.                                                                         | rrect requi<br>valuation,<br>uvalency<br>ent and o                   | rements an<br>Commercia<br>Evaluatio<br>constitute                 | re<br>al<br>on<br>a   |
| Technical Review                        | A determination as to whether a deficiency or ne<br>detected during a design, construction, procuren<br>operating, or modification activity will be accept<br>repaired to an acceptable condition, or rejected.                                                                                   | onconform<br>nent, instal<br>ed "as is"                              | ance that a lation, tes, reworked                                  | is<br>t,<br>1,        |
| Technical Specifications<br>(Safety)    | Those specifications contained in a facility operatin<br>specific technical operating limits and condition<br>facility operation; the basis for these limits and<br>surveillance requirements which relate to the to<br>inspections necessary to assure that the qua<br>components is maintained. | g license v<br>ns impose<br>l conditio<br>ests, calibi<br>lity of sy | which defind<br>d upon th<br>ns, and th<br>cations, an<br>stems an | ie<br>ie<br>d<br>d    |



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|                                      | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                  |                                                       |                                                       |                    |
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|                                      | GLOSSARY                                                                                                                                                                                                                  | Date                                                  | 11/8/9                                                | 3                  |
| FPL                                  |                                                                                                                                                                                                                           | Page                                                  | 39 of                                                 | 42                 |
| 5.0 <b>DEFINITIONS</b> :             | (Cont'd)                                                                                                                                                                                                                  |                                                       |                                                       |                    |
| Temporary<br>Procedures              | Temporary Procedures are written instructions whic                                                                                                                                                                        | h may be                                              | issued to:                                            |                    |
|                                      | 1. Direct operations during testing, refueling modifications.                                                                                                                                                             | g, mainte                                             | enance, an                                            | d                  |
|                                      | 2. Provide guidance in unusual situations not win normal procedures.                                                                                                                                                      | ithin the s                                           | scope of the                                          | ne                 |
|                                      | 3. Ensure orderly and uniform operations for sh plant, a system, or a component of a system manner not covered by existing detailed promodified or extended in such a manner that procedures do not apply.                | ort period<br>n is perfo<br>cedures o<br>portions     | ls when the<br>corming in<br>or has bee<br>of existin | a<br>a<br>en<br>eg |
| Temporary<br>Storage Facility        | A Quality Assurance Record Storage Facility th<br>requirements of a permanent storage facility except,<br>for a limited period of a time up to 18 months before<br>a permanent storage facility.                          | hat meets<br>the record<br>e being tr                 | all of the store ansmitted t                          | e<br>d<br>o        |
| (2) Testing<br>(3)                   | Performance of those steps necessary to determine the components function in accordance with pre-determined                                                                                                               | hat system<br>ined speci                              | ns or<br>fications.                                   |                    |
| Test Plan                            | An outline, narrative description, or flow diagram to<br>be performed, the methods to be used and the points<br>they are to be executed. May be a test procedure.                                                         | indicating<br>in the pro                              | the tests t<br>cess wher                              | 0<br>re            |
| Tolerance                            | The range of acceptable values for a characteristic the specified upper and lower limits.                                                                                                                                 | which is l                                            | bounded b                                             | у                  |
| Topical Quality<br>Requirement (TQR) | A document that delineates Quality Ast<br>requirements and responsibilities and sum<br>approach to activities related to items and<br>in the Quality Assurance Program. TQR<br>controlled by the Nuclear Assurance Depart | surance<br>imarizes<br>services<br>as are is<br>ment. | Program<br>the FP<br>include<br>ssued and             | n<br>L<br>d<br>d   |
| Traceability                         | Maintaining identification for the purpose of pre-<br>incorrect or defective materials, components or mode                                                                                                                | venting<br>ules.                                      | the use o                                             | f                  |
|                                      |                                                                                                                                                                                                                           |                                                       |                                                       |                    |

|                                      | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                  |                                                                                                                  |                                       |
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|                                      | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date                                                                                                             | 11/8/9                                                                                                           | 3                                     |
| FPL                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Page                                                                                                             | 40 of                                                                                                            | 42                                    |
| 5.0 <u>DEFINITIONS</u> :             | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                  |                                                                                                                  |                                       |
| (1) Transit                          | A state of being conveyed or transported from one                                                                                                                                                                                                                                                                                                                                                                                                                         | place to ar                                                                                                      | other.                                                                                                           |                                       |
| Transportation<br>Mode               | A method identified by the conveyance used for and may include motor vehicles, ships, railroad cargo-carrying body (trailer, van, boxcar, etc.) is a                                                                                                                                                                                                                                                                                                                      | transportat<br>cars, or air<br>separate v                                                                        | ion of item<br>rcraft. Eac<br>ehicle.                                                                            | ıs<br>h                               |
| (1) Trip-Point                       | A predetermined critical level at which a bistable of indicate that the quantity under surveillance has value.                                                                                                                                                                                                                                                                                                                                                            | device cha<br>s reached                                                                                          | nges state t<br>the selecte                                                                                      | o<br>d                                |
| Trouble Shooting                     | An activity performed by a qualified technician to a is not performing its intended function and what ca                                                                                                                                                                                                                                                                                                                                                                  | determine<br>used it to r                                                                                        | why an iter<br>nalfunction                                                                                       | n                                     |
| Unreviewed<br>Environmental Question | A proposed change, test or experiment shall be<br>unreviewed environmental question if it concerns:<br>result in significant increase in any adverse<br>previously evaluated in the Final Environment<br>supplements to the FES environmental impact<br>decisions of the Atomic Safety and Licensing<br>significant change in effluents or power levels, 3) a<br>reviewed and evaluated in the documents listed in<br>may have a significant adverse environmental impact | deemed to<br>1) a matter<br>environme<br>tal Stater<br>appraisals<br>Board (A<br>a matter no<br>one (1) a<br>ct. | o involve a<br>r which may<br>ntal impac<br>nent (FES)<br>, or in an<br>SLB), 2)<br>ot previously<br>bove, which | n<br>y<br>t<br>I,<br>y<br>a<br>y<br>h |
| Unreviewed Safety<br>Question        | An Unreviewed Safety Question is defined in 10 C<br>posed change, test, or experiment shall be de<br>Unreviewed Safety Question if:                                                                                                                                                                                                                                                                                                                                       | EFR 50.59.<br>eemed to                                                                                           | A pro-<br>involve a                                                                                              | n                                     |
|                                      | 1. The probability of occurrence or the consequence malfunction of equipment important to safety pathe Safety Analysis Report may be increased;                                                                                                                                                                                                                                                                                                                           | ences of ar<br>previously<br>or                                                                                  | accident o evaluated in                                                                                          | r<br>n                                |
|                                      | 2. If a possibility for an accident or malfunction evaluated previously in the Safety Evaluation I or                                                                                                                                                                                                                                                                                                                                                                     | of a differe<br>Report may                                                                                       | ent type than<br>y be created                                                                                    | n '<br> ,                             |
|                                      | 3. If the margin of safety as defined in the base of the specification is reduced.                                                                                                                                                                                                                                                                                                                                                                                        | usis for an                                                                                                      | y Technica                                                                                                       | 1                                     |
| Update                               | Revise and/or enter into the nuclear plant drawing s                                                                                                                                                                                                                                                                                                                                                                                                                      | system.                                                                                                          |                                                                                                                  |                                       |
|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                  |                                                                                                                  |                                       |
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| 1                               | FPL                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Page                                                            | 41 of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42               |  |  |  |
|                                 | 5.0 <u>DEFINITIONS</u> :                                                                                                                                       | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |  |  |
|                                 | (1) Use-as-is                                                                                                                                                  | A disposition which may be imposed for a nonconf<br>be established that no adverse conditions will exist<br>will satisfy all engineering functional requirement<br>performance, maintainability, fit, and safety.                                                                                                                                                                                                                                                                                                                                                                                      | ormance<br>and that<br>is includ                                | when it can<br>the subject<br>the su | n<br>ct<br>of    |  |  |  |
|                                 | 5.0 DEFINITIONS   (1) Use-as-is   User Documentation   Validation   Validation   Vendor Manual   (1) Verification   (1) Verification   (Software)   Vital Area | Specifies and describes the required input data, input sequences, options, program limitations, and other activities/ items necessary for the execution of the software. User documentation shall include as a minimum:                                                                                                                                                                                                                                                                                                                                                                                |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |  |  |
|                                 | ×                                                                                                                                                              | <ol> <li>User instructions that contain an introduction,<br/>user's interaction with the system, and a descriptraining for using the system.</li> <li>A system narrative.</li> <li>Input/output specifications.</li> <li>Samples of all outputs, forms, reports, or displated to the system of the system of the system.</li> <li>Data entry instructions for data preparation verification, and error correction.</li> <li>References to all documents or manuals intende</li> <li>A description of system limitations.</li> <li>A description of possible error situations and h respond.</li> </ol> | a description of a<br>ays.<br>a, data k<br>d for use<br>how the | iption of th<br>any require<br>ceying, dat<br>ers.<br>user should                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | e<br>d<br>a<br>d |  |  |  |
|                                 | Validation                                                                                                                                                     | The process of evaluating software at the en development process to ensure compliance with software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | d of th<br>ware requ                                            | e software<br>irements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | e                |  |  |  |
| -                               | Vendor Manual                                                                                                                                                  | A manual supplied by equipment manufactur<br>installation, operation, and maintenance of the equipm<br>NOTE: "Vendor Manual" also refers to all vendor<br>information such as Bulletins, Parts Bulletins, Notic<br>affects vendor manual contents.                                                                                                                                                                                                                                                                                                                                                     | rers tha<br>nent.<br>r supplic<br>es, Lette                     | t addresse<br>ed technica<br>ers, etc. tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | s<br>1<br>t      |  |  |  |
|                                 | (1) Verification<br>(Hardware)                                                                                                                                 | An act of confirming, substantiating and assuring that dition has been implemented in conformance requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | an activ<br>with th                                             | ity or con-<br>le specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                |  |  |  |
| /89                             | Verification<br>(Software)                                                                                                                                     | The process of determining whether or not the produ<br>of the software development cycle fulfill the requi<br>during the previous phase.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | cts of a g<br>irements                                          | given phase<br>established                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                |  |  |  |
| Form 2719 (Non - Stocked) Rev.1 | Vital Area                                                                                                                                                     | An area located within a protected area containing facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ; vital eq                                                      | juipment of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | r                |  |  |  |

|                          | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                | [                                                                      |                                                      |                            |  |  |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------|----------------------------|--|--|
|                          | 1<br>1                                                                                                                                                                                                                                                                  | Rev.                                                                   | 17 Dr.                                               | aft B                      |  |  |
|                          | GLOSSARY                                                                                                                                                                                                                                                                | Date                                                                   | 11/8/                                                | <del>)</del> 3             |  |  |
| FPL                      | : (Cont'd)                                                                                                                                                                                                                                                              | Page                                                                   | 42 of                                                | 42                         |  |  |
| 5.0 <b>DEFINITIONS</b> : | (Cont'd)                                                                                                                                                                                                                                                                |                                                                        |                                                      |                            |  |  |
| Vital Equipment          | Any equipment system, device, or material; the<br>release of which could directly or indirectly end<br>and safety by exposure to radiation. Equipment of<br>be required to function to protect public health an<br>failure, destruction, or release are also considered | e failure, d<br>langer the<br>or systems<br>d safety fo<br>to be vital | lestruction<br>public hea<br>which wou<br>llowing su | or<br>lth :<br>ild :<br>ch |  |  |
| Waiver                   | An exception to established controls, or th procedures in lieu of controls.                                                                                                                                                                                             | e adoptio                                                              | n of spec                                            | ial                        |  |  |
| Witness                  | To watch over, observe, or examine a specific test or work operation<br>which includes sign-off responsibility.                                                                                                                                                         |                                                                        |                                                      |                            |  |  |

Work Instructions Instructions to personnel performing work on specific areas such as controls and identification of materials and equipment during fabrication or installation.

Workmanship That quality of an item that expresses its skillful and artful manufacture, without apparent blemishes.

A flexible material, formed around the item or package to exclude dirt and to facilitate handling, marking or labeling.

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### Enclosure III

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# Enclosure II

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The Topical Quality Assurance Report (FPLTQAR 1-76A) contains the description of the Florida Power & Light Company (FPL) Quality Assurance Program relative to its nuclear power plants. This report consists of three parts: The Introduction, which delineates the purpose and summarizes the scope and applicability of the Topical Quality Assurance Report. The second part, Topical Quality Requirements (TQRs), which delineate Quality Assurance Program requirements and summarizes the FPL approach to activities related to materials, parts, components, systems and services included in the Quality Assurance Program. The third part, Appendices, which provide supporting statements, tabulations, and technical analyses or deviations which are not, in themselves, the subject of the report.

The Topical Quality Assurance Report shall be an integral part of the Quality Assurance Manual (FPL NQA-100A), and shall delineate the generic requirements and responsibilities by which FPL implements the corporate Quality Assurance Program. Revisions and changes to this Report will be made in accordance with a Quality Procedure as outlined in TQR 2.0. The remainder of the Quality Assurance Manual is comprised of Quality Procedures (QPs) which serve as the documents which describe how the interfacing of tasks between departments or organizations is achieved. The Quality Procedures also cover those technical elements which require a common corporate position for interfaces or resolution of problem areas.

The corporate Quality Assurance Manual (FPL-NQA-100A) consists of the Topical Quality Assurance Report and a Glossary of commonly used terms. The Topical Quality Assurance Report delineates the generic requirements and responsibilities by which FPL implements the corporate Quality Assurance Program. Revisions and changes to this report are made in accordance with a Quality Instruction outlined in TQR 2.0.

In addition to the Quality Assurance Manual, Quality Instructions (QIs) are developed as required by each of the implementing plants and departments. Quality Instructions describe the measures to be used to implement the quality requirements of the Quality Assurance Manual. The Quality Instructions describe actions and responsibilities to be performed within a department or organization and address the requirements of the appropriate Topical Quality Requirements.

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The FPL Quality Assurance Program meets the requirements provided by the NRC Regulatory Guidance and Industry Standards as listed in Appendix C of this Topical Quality Assurance Report.

The requirements of this Topical Quality Assurance Report apply to safety-related materials, parts, components, systems and structures; services employed for design, procurement construction, operation, maintenance, refueling, repair, and modification; and packaging and shipping of radioactive material (but not design and fabrication of packages for which a license, certificate of compliance, or other approval must be issued by the NRC) in accordance with 10 CFR part 71. The safety-related systems for each plant are specified in the respective plant Safety Analysis Report.

The FPL Quality Assurance Program fully addresses the requirements of Appendix B to 10 CFR Part 50. The Topical Quality Assurance Report shall be applicable to all existing nuclear plants, those under construction, and supporting FPL departments, and will be referenced in the Safety Analysis Report (SAR). For future plants, the description of activities, requirements, and organizations structures that are unique to a particular plant shall be addressed in the respective SAR document.

Vice President Nuclear Assurance

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### 1.1 GENERAL REOUIREMENTS

The Florida Power & Light (FPL) organizational structure shall be defined such that the responsibilities for establishment and implementation of the Quality Assurance Program are clearly identified. The authority and duties of individuals and organizations performing quality assurance and quality control functions shall be described, and shall illustrate the organizational independence and authority necessary to identify problems; to initiate, recommend, or provide solutions; and to verify implementation of solutions. In addition, the description shall illustrate that persons or groups responsible for verifying the correct performance of an activity are independent of the person or groups responsible for performing the activity.

### 1.2 IMPLEMENTATION

The FPL Chairman of the Board and Chief Executive Officer is ultimately responsible for the execution of the Quality Assurance Program for FPL nuclear power plants. The authority for developing and verifying execution of the program is delegated to the President Nuclear Division and the Vice President Nuclear Assurance. The reporting relationship of each department involved with the Quality Assurance Program is shown in Appendix A.

To provide for a review and evaluation of Quality Assurance Program policies and activities, the President Nuclear Division has established the Company Nuclear Review Board (CNRB). This organization's responsibilities are defined in Section 1.23.1.5.a.

In addition, a Quality Assurance Program Review Committee (QAPRC) has been established to review changes to the Quality Assurance Program and to provide an interface for quality matters in each department affecting quality. The QAPRC is an interdepartmental organization with the responsibility to review and resolve recommended changes to the Quality Assurance Program. This committee is administered by the Quality Assurance Services group. Quality Assurance Program changes reviewed by the QAPRC

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are reviewed and signed by the affected department heads or individuals listed on each Quality Procedure.

A Quality Assurance Program Review Committee (QAPRC) Member shall be designated by the head of each department or organization. The QAPRC Member is the prime interface for coordination of quality matters within the member's department, with the Quality Assurance Department, and with other departments.

The head of each department or organization performing activities affecting quality is responsible for: a) identifying those activities within the organization which affect quality as defined by the Quality Assurance Program; b) establishing and clearly defining the duties and responsibilities of personnel within his organization who execute those activities affecting quality; and c) planning, selecting, and training personnel to meet the requirements of the Quality Assurance Program. The responsibility, authority, and organizational relationship for performing activities affecting quality within each organization shall be established and delineated in organizational charts and written job or functional descriptions.

Activities affecting quality may be performed by FPL or be contracted. Should any of these functions be contracted, the contractor may perform the activities under his own Quality Assurance Program, which must have prior approval by FPL Quality Assurance, or the contractor may directly adopt the requirements of the FPL Quality Assurance Manual. If the contractor implements the Quality Control function directly to the FPL Quality Assurance Manual requirements, the contractor's Quality Control Supervisor shall have the authority and freedom to administer the Quality Control program.

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### 1.3 <u>RESPONSIBILITIES</u>

The organization charts in Appendix A illustrate the lines of authority and areas of responsibility for each of the organizations that are involved in activities affecting quality. Below are listed the departments and organizations that have Qquality Aassurance responsibilities. Specific oOrganizational responsibilities for implementation of the Quality Assurance Program are described in the corresponding sections the Topical Quality Requirements (TQRs).

|               | •                                   |               |                                                                       |
|---------------|-------------------------------------|---------------|-----------------------------------------------------------------------|
| <u>1.23.1</u> | Nuclear Division                    | <u>1.23.2</u> | Support Departments                                                   |
| 1.23.1.1      | Plant Vice Presidents               | 1.23.2.1      | Administrative Services<br>- Corporate Records<br>- Documentary Files |
| 1.23.1.2      | Nuclear Services                    |               |                                                                       |
| 1.2.1.3       | Nuclear-Construction-Services       | 1.23.2.2      | Environmental Affairs                                                 |
| 1.23.1.43     | Nuclear Engineering                 | 1.23.2.3      | Protection & Control Systems                                          |
|               | and Licensing                       | .1.23.2.4     | Information Management                                                |
| 1.23.1.54     | Nuclear Assurance                   |               |                                                                       |
| 1 00 1 75     | Musley Augliste and Generals Desite |               |                                                                       |

1.23.1.65 Nuclear-Analysis-and-Controls Business Services

### 1.23.1 Nuclear Division

Throughout plant life, the Nuclear Division maintains control of and responsibility for nuclear power plant design, preoperational and start-up testing, operation, maintenance, refueling, and modification of the plant in accordance with written and approved procedures.

The President Nuclear Division has overall responsibility for the Nuclear Division's activities including corporate responsibility for overall plant nuclear safety. Reporting to the President Nuclear Division are: the Vice President - Turkey Point Plant, Vice President - St. Lucie Plant, Vice President Nuclear Assurance, Vice President Nuclear Engineering and Licensing, Director Nuclear Services, Director Nuclear Construction Services, and the Manager Nuclear Analysis and Controls Business Services.

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The Company Nuclear Review Board (CNRB), reporting to the President Nuclear Division, is comprised of executive level members of management with responsibilities for the execution of the Quality Assurance Program. The CNRB reviews, or directs the performance of reviews of, activities concerning the technical aspects of the operating nuclear power plant insofar as they impact plant safety, the health and safety of the public, and laws, regulations and licensing commitments. In addition, audits of these areas are performed under the cognizance of the CNRB.

The CNRB composition is described in Section 6.0 of each facility's Technical Specifications. Subjects within the purview of the CNRB are listed in the appropriate plant Technical Specifications. The CNRB has the authority to carry out its responsibilities by way of written action letters, verbal directions, meeting minutes or appointed subcommittees. Where necessary, the CNRB may use consulting services to perform required reviews.

The CNRB is responsible for reviewing and evaluating Quality Assurance Program policies and activities. Quality Assurance Program status reports shall be periodically given by the Quality Assurance Department.

CNRB meetings shall be held by the Chairman to keep members apprised of conditions including significant problems that require management attention. Periodic audits of the Quality Assurance Department shall be performed by a team independent of the Quality Assurance Department. The results of this audit are presented to the Vice President Nuclear Assurance and the CNRB.

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### 1.23.1.1 Plant Vice Presidents

The Vice President-St. Lucie Plant and Vice President-Turkey Point Plant are accountable for the operation, maintenance, and modification of their respective nuclear plant, as well as the selection, development and direction of the assigned staff. They will act as liaison between the plants and corporate headquarters, and are accountable for ensuring that company policies and procedures are properly implemented and continued at the nuclear site, including procurement and control of material. The Plant Vice President has overall responsibility for implementation of the Environmental Protection Plans at their respective sites.

Reporting to the Plant Vice President - Turkey Point Plant are the Plant General Manager, the Services Manager, the Human Resources Manager, the Business Systems Manager, the Materials Management Manager, and the Licensing Manager. Also, the Plant Vice President has functional responsibility over the Site Engineering Manager providing work direction to this group.

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Reporting to the Vice President - St. Lucie Plant are the Plant General Manager, the Services Manager, the Licensing Manager, the Materials Management Manager, and the Human Resources Manager. Also, the Plant Vice President has functional responsibility over the Site Engineering Manager, Manager Nuclear Material Management and the Site Construction Manager providing work direction to those this groups.

The Plant General Manager - PSL and Plant General Manager - PTN, through the respective Plant Vice President, are responsible for the operation of the nuclear plant.

The Plant Nuclear Safety Committee (PNSC) at Turkey Point Plant and the Facility Review Group (FRG) at the St. Lucie Plant are comprised of key plant management and staff personnel as described in the plant Technical Specifications. The PNSC/FRG serves the plant manager in a technical advisory capacity for the review of all safety-related procedures and activities that impact plant safety and the facility operating license.

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### 1.23.1.2 Nuclear Services

The Director Nuclear Services is accountable for technical staff support to the Nuclear Plants and certain centralized special functions. Reporting to the Director Nuclear Services are the Manager Nuclear Training, Manager Nuclear Security, Manager Nuclear Health Physics/Chemistry and the Manager Nuclear Emergency Preparedness.

- a. The Manager Nuclear Training prepares policy documents regarding nuclear training and provides support to secure the necessary resources to ensure that Nuclear Division personnel are adequately trained. They must have adequate technical and job-related skills to provide safe and efficient operation while complying with NRC requirements.
- b. The Manager Nuclear Security is responsible for coordinating the overall development and implementation of the FPL nuclear security program
- c. The Manager Nuclear Health Physics/Chemistry provides technical support and assistance to the plants in the areas of health physics, chemistry, radioactive waste and hazardous material control.
- d. The Manager Nuclear Emergency Preparedness provides technical support and assistance to plant and corporate management for activities associated with radiological emergency plans and procedures.

### 1.2.1.3 --- Nuclear-Construction-Services

The Director—Nuclear-Construction Services is responsible for directing and administering effective management of the department to ensure compliance to the corporate policies, practices and procedures; and providing qualified construction support personnel to the Site Construction Managers.

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Reporting to the Director – Nuclear Construction Services are the Manager Construction Control and the Site Construction Managers.

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|                 | . <del> </del> | <del>The Man</del>    | ager-Construction-Control is responsible for:-            |                                |
|                 |                |                       | monitoring-budget-performance-against-planned-engi        | neering-activities-as-         |
|                 |                |                       | budgeted by the Construction Services organization;       | -                              |
| 1               |                |                       | monitoring-the-efficient-utilization-of-resources         | -expended-against              |
|                 |                |                       | Construction Services budgeted activities; and            |                                |
|                 | <b></b>        | •                     | ensuring-economic-utilization-of-capital-construction     | on-equipment-at-all-           |
|                 |                |                       | Construction-Services locations.                          |                                |
| 17. <b>m</b> (1 | b.             | The Site              | Construction Manager is responsible for:                  |                                |
|                 |                | 0                     | completing the assigned project in compliance with        | technical and other            |
|                 |                |                       | project-specifications, and for the application of the    | -provisions-of-the             |
|                 |                |                       | Quality Assurance Manual during the project;-             | `                              |
|                 |                | 0                     | obtaining-corrective-action (along-with-Nuclear-Mat       | erials-Management)             |
| 1               |                |                       | from-contractor's-management-and,-when-necess             | <del>ary, exercising the</del> |
|                 |                |                       | authority to stop work on project activities adverse to q | uality.                        |
|                 |                | Reporting             |                                                           | iction-Supervisors.            |
|                 | -              | The-Lea               | d-Construction Supervisor-is responsible for confe        | -<br>prmance-ofproject         |
|                 |                | construct             | ion activities to the requirements of specifications, cod | es, regulations and            |
|                 |                | <del>site-proc</del>  | edures. The Lead-Construction-Supervisor supervis         | es-the-construction            |
| I               |                | <del>personne</del> l | assigned to the project, and coordinates construction     | activities, including          |
| ŕ               |                | the assign            | ment of construction personnel.                           |                                |
|                 |                | The overa             | ll-responsibility for Plant-Changes and Modifications to  | operating plants is            |
|                 |                | defined-i             | n-each-plant's-Technical-SpecificationsThe-work-          | of-installation-and            |
|                 |                | administr             | ation of Plant-Changes and Modifications can-be-as        | signed-to-Nuclear              |
| -               |                | Construct             | ion Services. The Site Construction Manager will repo     | ort-to-the-Director-           |
|                 |                | Nuclear (             | Construction Services; however, the Vice President-       |                                |
|                 |                | Manager-              | -PTN-has functional-responsibility-over the Site-Constr   | uction Manager by              |
|                 |                | -<br>providing        | -work direction.                                          | <b>U</b>                       |
| 1               |                | _                     |                                                           |                                |

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Project-Team-Members-are-appointed-by-their-home-department-heads-as-the departmental-representative on the respective project, when-requested-by-the-Site Construction-Manager, Team-Members, other-than-Quality-Assurance, reportfunctionally-to-the-Site Construction Manager, but-continue-to-receive administrative support-and-technical-direction from their-home-department. Team-members are responsible to-the-Site Construction-Manager for home-department-support-to-the project.

Activities affecting quality may be performed by FPL or contracted. Should any of these functions be contracted, the contractor may perform the activities under his own Quality Assurance Program, which must have prior approval by FPL Quality Assurance, or the contractor may directly adopt the requirements of the FPL Quality Assurance Manual. If the contractor implements the Quality Control function directly to the FPL Quality Assurance Manual requirements, the contractor's Quality Control Supervisor shall have the authority and freedom to administer the Quality Control program.

# 1.23.1.43 Nuclear Engineering and Licensing

The Vice President Nuclear Engineering and Licensing is responsible for nuclear plant design, materials management at Juno Beach, contract activities and maintaining the operating licenses.

Reporting to the Vice President Nuclear Engineering and Licensing are the Director-Nuclear Engineering, Manager - Turkey Point Engineering, Manager - St. Lucie Engineering, <u>Director Nuclear</u> Manager - Licensing and Special Programs, Director Manager - <u>Nuclear</u> Materials Management, <u>Manager</u> Director - <u>Nuclear</u> Information Services Technical Support, Manager <u>Project Controls, and the</u> <u>Nuclear Records Official</u> Component Support and Inspections, and the Manager - St. Lucie Steam Generator Repair Project.

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### a. Nuclear Engineering-Department

The Nuclear Engineering-Department includes personnel located at both nuclear sites and at the corporate office. Nuclear Engineering performs design-related activities and delegates design-related activities to qualified contractors. For activities performed by Nuclear Engineering, the work is governed by FPL's Quality Assurance Program, and Nuclear Engineering is responsible for approval of the design output. Delegated activities are performed in accordance with an FPL approved Quality Assurance Program and the contractor is responsible for approval of design output. Nuclear Engineering is responsible for defining the scope of delegated activities and the responsibilities of the contractor. Prior to the release of design outputs by contractor organizations, Nuclear Engineering ensures that the contractor is technically qualified to perform the design-related activity.

The Director—Nuclear Engineering The Manager - Turkey Point Engineering and the Manager - St. Lucie Engineering provide on-site engineering support and direct the engineering aspects of all FPL nuclear power plant projects during construction and operation to assure efficient, economical and reliable power plant design, conformance with engineering schedules and budgets and compliance with regulatory requirements. The Manager—Turkey Point-Engineering and Manager—St. Lucie Engineering are responsible for oncite-engineering support-to-the-nuclear-units.—The Director—Nuclear Engineering is responsible for engineering projects and support at the Corporate Nuclear Engineering Office.—Project Managers are assigned to provide overall management and control of designated projects as required by the Vice President—Nuclear Engineering and Licensing.

The Nuclear Engineering Department is responsible for:

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 power plant design related aspects of the FPL Quality Assurance Program throughout all phases of plant life. This responsibility extends from initial engineering evaluations of plant design-related site characteristics, through preliminary and detailed design, construction, operation and decommissioning;

 development and maintenance of the design control program governing design-related activities performed by Nuclear Engineering and for providing technical support to the Quality Assurance Department for ässessing the adequacy, implementation and effectiveness of contractor design control programs;

o the preparation, revision, approval and distribution of plant design records that are identified to be maintained as "as constructed" drawings during plant operation;

o the development, control, and performance of certain aspects of items and services procurement, including establishment of procurement standards, the technical evaluation, equivalency evaluation, and commercial grade dedication of replacement parts/components for nuclear plants.

o review of the technical and quality requirements in procurement requisitioning documents and changes thereto for safety related and quality related items and services, as well as configuration control activities for controlled design documentation associated with procurement. The review shall be performed by individuals other than the document originator;

Aspects of the above activities are performed by the Juno Beach Engineering organization as determined by the Vice President Engineering and Licensing.

• forecasting-FPL's-nuclear-fuel-requirements and the availability of nuclearfuel;

 determining sources of supply, evaluating alternatives, and negotiating and establishing arrangements with suppliers for acquisition, processing and delivery of nuclear fuel and related services for the nuclear-fuel cycle;

-o assuring-that-technical-and-quality-requirements-(including-inputs-from

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other-FPL-departments)-are-incorporated in fuel-contracts and letters of authorization, and that these documents have the necessary approvals;

administering and managing contracts for nuclear fuel and related services to assure that technical and quality obligations are met, and serving as FPL liaison in all matters of nuclear fuel and fuel related contracts;administering and managing spent fuel disposal contracts with Department of Energy and serving as FPL liaison in matters of nuclear fuel and high level waste disposal;

performing-the-project-management-function-with-respect-to-fuel management, design, licensing, delivery and other-technical aspects of nuclear-fuel;

all-fuel-related-design, -analyses, reviews, -and -technical-assistance necessary-to-ensure-the-safe, reliable, and economic-operation-of-the nuclear-plants;

the optimization of nuclear fuel-cycle economics within nuclear safety and operating constraints, as well as providing fuel related information, such as forecasts of nuclear fuel requirements to support licensing and regulatory requirements;

the development and/or review of fuel and nuclear physics design;

implementing-and-maintaining-the-FPL-corporate-nuclear-material accountability-program-as-outlined-in-the-FPL-Special-Nuclear-Material Control-Manual;

providing-support-to-the-Quality-Assurance-Department-for-their-auditingof-nuclear fuel-design-and fuel-assembly-manufacturing;

 performing-audits and-coordinating-accountability-reporting-on-all-nuclearfuel;

developing-and-providing, to-appropriate-FPL-groups,-information
 necessary to determine FPL's fuel-related costs and to finance fuel-related
 expenditures;

 providing-technical-support-of-activities-associated-with-componentreliability,-materials-evaluations,-inspections,-corrosion-protection,-nondestructive-examination, and-ASME-Section-XI-implementation/problem resolution-for-nuclear-plant-components;

|      | TOPICAL QUALITY ASSURANCE REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TQR 1.0                                                                                                |
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|      | Quality Accurance Program and applicable codes and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | standarde:                                                                                             |
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|      | Manual-to-implement-the-FPL-Welding Program;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                        |
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|      | Program.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                        |
| ł    | . <u>Nuclear Licensing and Special Programs Department</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                        |
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|      | The Nuclear Licensing and Special Programs Departs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ment is responsible                                                                                    |
|      | The Nuclear Licensing and Special Programs Depart<br>for engineering activities at the Juno Beach offi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ment is responsible<br>ce and licensing                                                                |
|      | The Nuclear Licensing and Special Programs Depart<br>for engineering activities at the Juno Beach offi<br>activities as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ment is responsible<br>ce and licensing                                                                |
|      | The Nuclear Licensing and Special Programs Depart<br>for engineering activities at the Juno Beach offi<br>activities as follows:<br>o Engineering assurance;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ment is responsible<br>ce and licensing                                                                |
|      | The Nuclear Licensing and Special Programs Departs<br>for engineering activities at the Juno Beach offi<br>activities as follows:<br>o Engineering assurance;<br>o Probalistic risk management;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <del>mont</del> is responsible<br>ce and licensing                                                     |
|      | The Nuclear Licensing and Special Programs Departs<br>for engineering activities at the Juno Beach offi<br>activities as follows:<br>o Engineering assurance;<br>o Probalistic risk management;<br>o Electrical engineering support;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <del>ment</del> is responsible<br>ce and licensing                                                     |
|      | The Nuclear Licensing and Special Programs Departs<br>for engineering activities at the Juno Beach offi<br>activities as follows:<br>o Engineering assurance;<br>o Probalistic risk management;<br>o Electrical engineering support;<br>o Civil engineering support;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <del>mont</del> is responsible<br>ce and licensing                                                     |
| •    | The Nuclear Licensing and Special Programs Departs<br>for engineering activities at the Juno Beach offi<br>activities as follows:<br>o Engineering assurance;<br>o Probalistic risk management;<br>o Electrical engineering support;<br>o Civil engineering support;<br>o Mechanical engineering support;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ment is responsible<br>ce and licensing                                                                |
|      | The Nuclear Licensing and Special Programs Departs<br>for engineering activities at the Juno Beach offi<br>activities as follows:<br>o Engineering assurance;<br>o Probalistic risk management;<br>o Electrical engineering support;<br>o Civil engineering support;<br>o Mechanical engineering support;<br>o Configuration management and document con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ment is responsible<br>ce and licensing<br>trol;                                                       |
|      | <ul> <li>The Nuclear Licensing and Special Programs Departs for engineering activities at the Juno Beach offi activities as follows:</li> <li>o Engineering assurance;</li> <li>o Probalistic risk management;</li> <li>o Electrical engineering support;</li> <li>o Civil engineering support;</li> <li>o Mechanical engineering support;</li> <li>o Configuration management and document comon Nuclear Division corporate interface with the NRC;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mont is responsible<br>ce and licensing                                                                |
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|      | <ul> <li>The Nuclear Licensing and Special Programs Departs for engineering activities at the Juno Beach offi activities as follows:</li> <li>Engineering assurance;</li> <li>Probalistic risk management;</li> <li>Electrical engineering support;</li> <li>Civil engineering support;</li> <li>Mechanical engineering support;</li> <li>Configuration management and document con Nuclear Division corporate interface with the NRC;</li> <li>Nuclear Division corporate administrative point of com Managing NRC safety and regulatory issues and d</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ment is responsible<br>ce and licensing<br>trol;<br>tact with INPO;<br>eveloping effective             |
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|      | <ul> <li>The Nuclear Licensing and Special Programs Departs for engineering activities at the Juno Beach officient activities as follows:</li> <li>Engineering assurance;</li> <li>Probalistic risk management;</li> <li>Electrical engineering support;</li> <li>Civil engineering support;</li> <li>Mechanical engineering support;</li> <li>Configuration management and document com</li> <li>Nuclear Division corporate interface with the NRC;</li> <li>Nuclear Division corporate administrative point of com</li> <li>Managing NRC safety and regulatory issues and d strategies to resolve them;</li> <li>Advising senior Nuclear Division management on important developments in licensing areas which could</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | trol;<br>trol;<br>tact with INPO;<br>eveloping effective<br>a regular basis of<br>significantly affect |

- o Providing Nuclear Division licensing hearing and legal services;
- Providing corporate licensing support and guidance to onsite licensing organizations;
- o Administering the Nuclear Problem Reporting System;
- o Administering the Commitment Tracking System;
- o Administering the Operating Experience and Feedback System.



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c. Nuclear Materials Management Department

The Nuclear Materials Management Department is responsible for:

- negotiation,-procurement-and-management of-contracts (except-nuclearfuel);
- o- purchase and control-of-materials;-
- and the administrative duties to support these activities; Reporting to the Director Nuclear Materials Management are the Supervisors of Contracts (Juno Beach), and the Site Managers of Nuclear Materials Management (Turkey Point and St. Lucio).

1)-Nuclear-Contracts-

Nuclear Contracts is responsible for

 negotiation, generation, -and issuance, and management of contracts (except nuclear fuel) and purchase orders for required contracted services supporting the operation, licensing, maintenance, modification, and inspection of FPL nuclear plants, and for materials and equipment to support Nuclear Division staff; The Site Managers of Nuclear Materials Management (Turkey Point and St. Lucie) are responsible for Nuclear Contracts activities performed at the respective sites. The Supervisors of Contracts (Juno Beach) are responsible for Nuclear 13

Nuclear-Contracts is also responsible for

- reviewing procurement documents to assure that technical and quality requirements developed by others are incorporated into the procurement documents which it authorizes;
- o and ensuring that the requisitioning documents have the required approvals; Services for nuclear-safety-related applications are secured only from approved suppliers, or as commercial-grade, as applicable. Nuclear Contracts is responsible for
- o maintaining traceability of procurement document records for which

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they are responsible until transmitted to an approved storage facility.

-Purchasing and Warehousing-

The Site — Managers of Materials Management (Turkey Point and St. Lucie) are responsible for the procurement and control of FPL Nuclear Plant — materials and equipment...

Purchasing-is-responsible-for-the-procurement of-materials and equipment by FPL for its nuclear power-plants with the exception of nuclear fuel procurement. Materials and equipment for nuclear safety related application are-secured only from approved suppliers, or as commercial-grade, as applicable. Purchasing-is responsible for reviewing-procurement documents to assure that technical and quality requirements developed by others are incorporated into the procurement document which it authorizes, and that the requisitioning documents have the required approvals. Purchasing is responsible for maintaining traceability of procurement document records until transmitted to an approved storage facility.

Warehousing is responsible for the receipt, handling, storage, issue and shipping of materials and equipment received at the nuclear plant for control by Warehousing. This responsibility encompasses material, parts and components for plant equipment while in their care and custody. During operations, Warehousing also performs additional quality related activities such as receipt inspection of other than safety related materials and equipment and handling and segregation for nonconforming items received for material control.

d. Project-Controls Department

The Project Controls Department is responsible for:

Coordinating-the-establishment-of-scope-baseline-for-the-Nuclear Engineering, Nuclear-Materials-Management, and Nuclear-Licensing-

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Departments.

Developing estimates for the scope, and annually establishing budgets for the work to be performed.

-o Monitoring cost and schedule performance.

 Reforecasting-costs-and-schedule-based-on-performance-history-andemergent-trends-

Providing-management-with-corrective-action-recommendations,-andimplement same into revised scope, cost, and schedule baselines.

ed. Nuclear Information Services Department- Technical Support

The Nuclear Information-Services-Department Technical Support is responsible for the identification, design, development, implementation, ongoing maintenance, and control of all Nuclear Division data processing information systems excluding process applications.

This encompasses the following accountabilities:

- o directing the development, implementation, and on-going maintenance of information management systems;
- coordinateing and directing the computer hardware and telecommunication planning and control within the Nuclear Division;
- o ensu: eing that the Nuclear Division's information management program is in full compliance with software quality assurance regulations and guidelines;
- o administering and controlling system access;
- o executeing software production release and change control activities;
- o administering physical databases and provideing on-going technical support

Nuclear Technical Support is also responsible for nuclear fuel engineering and procurement activities including the following:

o determining sources of supply, evaluating alternatives, and negotiating and establishing arrangements with suppliers for acquisition, processing and delivery of nuclear fuel and

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related services for the nuclear fuel cycle;

o assuring that technical and quality requirements (including inputs from other FPL departments) are incorporated in fuel contracts and letters of authorization, and that these documents have the necessary approvals;

administering and managing contracts for nuclear fuel and related services to assure that technical and quality obligations are met, and serving as FPL liaison in all matters of nuclear fuel and fuel-related contracts;

o administering and managing spent fuel disposal contracts with Department of Energy and serving as FPL liaison in matters of nuclear fuel and high level waste disposal;

o performing the project management function with respect to fuel management, design, licensing, delivery and other technical aspects of nuclear fuel;

o all fuel related design, analyses, reviews, and technical assistance necessary to ensure the safe, reliable, and economic operation of the nuclear plants;

o the optimization of nuclear fuel cycle economics within nuclear safety and operating constraints, as well as providing fuel related information, such as forecasts of nuclear fuel requirements to support licensing and regulatory requirements;

o the development and/or review of fuel and nuclear physics design;

o implementing and maintaining the FPL corporate nuclear material accountability program as outlined in the FPL Special Nuclear Material Control Manual;

o providing support to the Quality Assurance Department for their auditing of nuclear fuel design and fuel assembly manufacturing;

o performing audits and coordinating accountability reporting on all nuclear fuel;



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The Nuclear Records Official, reporting to the Director Technical Support, is responsible for:

- ensuring the Quality Assurance records program activities are managed in accordance with applicable laws and regulations;
- o developing, approving, and maintaining record retention schedules;
- establishing parameters for records indexing;
- locating acceptable record storage areas when requested;
- storage, retrieval and control of records/documents as requested by other departments;
- leading the evaluation of specially designated QARSET approved storage facilities, maintaining the records of this evaluation, and establishing schedules to assure that re-evaluations are performed every two (2) years.

### e. Component Support and Inspections

Component Support and Inspections is responsible for providing support to the plants as follows:

- o providing technical support of activities associated with component reliability, materials evaluations, inspections, corrosion protection, non-destructive examination, and ASME Section XI implementation/problem resolution for nuclear plant components;
- o providing specific component expertise, metallurgical support, and non-destructive examination and inspections;
- o establishing the FPL Welding Program to meet the requirements of the Quality Assurance Program and applicable codes and standards;
- o developing, maintaining, and controlling the procedures and instructions to implement the FPL Welding Program;
- o originating and qualifying welding procedure specifications; and
- o providing technical direction to personnel within the FPL Welding Program.

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The Vice President Nuclear Assurance is responsible for the selection, technical direction, administrative control (e.g. performance appraisal, salary review, hire/fire, position assignment) staffing, training and development of personnel required for supervisory and operating continuity of the Quality Assurance Department and the Nuclear Safety Assessment Group. The Vice President Nuclear Assurance also initiates QA Program policy changes when necessary. In addition, the Vice President Nuclear Assurance is responsible for selecting a team independent of the Quality Assurance Department to perform periodic audits of the Quality Assurance Department. The results of these audits are presented to the Vice President, Nuclear Assurance and the Company Nuclear Review Board (CNRB).

Reporting to the Vice President Nuclear Assurance are the Director Nuclear Safety Assessment, the Site Quality Manager - Turkey Point, the Site Quality Manager - St. Lucie and the Quality Manager - Juno Beach, and the PSL Steam Generator Project (SGP) Quality Assurance Manager for quality direction.

ba. Nuclear Safety Assessment Group

The Director Nuclear Safety Assessment has responsibility for the management and implementation of Nuclear Safety Speakout, PSL and PTN Independent Safety Engineering Groups (ISEG), and the CNRB subcommittee, <u>Additionally, he and</u> serves as the CNRB Chairman. <u>Reporting-to-the-Director Nuclear-Safety</u> Assessment-are the Chairmen of ISEG at PTN and PSL, the Supervisors Nuclear Safety Speakout at PTN and PSL, the Nuclear Safety Speakout investigators at Juno Beach, and the CNRB Subcommittee Chairman.

The Nuclear Safety Speakout Program provides a forum for employees and contractors to communicate their concerns to FPL. Concerns are documented, investigated and corrective actions are taken when necessary: The program offers confidentiality.

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The Quality Assurance Department shall be responsible for administering the FPL Quality Assurance Program. This includes developing and verifying implementation of corporate policies, plans, requirements, and procedures affecting quality. This is accomplished through the Quality Assurance Department. The Quality Assurance Department retains responsibility for delegated portions of the Quality Assurance Program by performing initial evaluation and subsequent periodic audits of the contractors' Quality Assurance Programs. The Quality Assurance Program responsibility further extends to the performance of audits within the Company to assure management that the established requirements and procedures are being implemented, and that the Program complies with the baseline document requirements.

The organizational freedom of the Quality Assurance function is accomplished through the corporate structure, illustrated in Appendix A, which provides independence from those departments responsible for design, procurement, engineering, construction and operation. With quality assurance as its sole function the Quality Assurance Department, both on-site and off-site, is completely free from the cost and scheduling pressures of design, procurement, construction and operation. The Quality Assurance Department has the freedom and authority to: a) identify quality problems; b) initiate, recommend or provide corrective action; c) verify implementation of the corrective action; and d) recommend the stoppage of work or operations adverse to quality, when necessary. The Quality Manager - Juno Beach, the Site Quality Manager - St. Lucie and the Site Quality Manager - Turkey Point report administratively and functionally to the Vice President Nuclear Assurance. These reporting relationships assure that the Quality Assurance Department has direct access to the levels of management necessary to assure effective implementation of the Quality Assurance Program.

The duties, responsibilities, and authorities of each Quality Assurance group are described in the sections which follow.

1) Quality Assurance Services Group

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The Quality Manager - Juno Beach directs and administers the Corporate Quality Assurance Program assuring compliance with the baseline documents listed in Appendix C of this Topical Quality Assurance Report. Quality Assurance Services Group activities include the following:

- o develop and maintain the Quality Assurance Department Quality Instructions and the corporate Quality Assurance Manual, including the administration of the Quality Assurance Program Review Committee (QAPRC);
- o assist other departments in the development of Quality Instructions by review and comment and through interpretation of corporate Quality Assurance requirements;
- o develop and implement a Quality Assurance indoctrination program for FPL personnel, and a training program for the Quality Assurance Department;
- prepare reports on Quality Assurance Program activities for review by the CNRB;
- o review Regulatory Guides, Codes, SAR Document Commitments and Standards for impact on the Quality Assurance Program and recommend appropriate program changes;
- review documents submitted to the CNRB as requested by the Nuclear Assurance Department CNRB member;
- o plan, coordinate and implement a comprehensive system of periodic internal audits with support from the other Quality Assurance groups, when necessary;

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- review FPL originated design specifications for inclusion of appropriate quality requirements.
- perform periodic activity audits of FPL procurement and associated documents and changes to these documents to assure that the necessary quality requirements are imposed.
- o assist in the development and implementation of policies, plans, requirements and procedures for the requisition and purchase of materials, equipment and services related to nuclear power plants and to the acceptance and storage of equipment and material;

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- o perform appropriate surveillance of hardware during manufacture;
- o develop and implement a program for auditing of supplier Quality Assurance/Quality Control programs including Architect Engineer/Nuclear Steam Supply System Suppliers;
- o assure design-related activities performed by the Architect Engineer meet the quality aspects of the contract;
- o assist other FPL departments in the identification of quality problems associated with procurement and storage; initiate, recommend, or provide solution; and verify implementation of solutions;
- o review, approve and periodically audit the execution of FPL contractor quality assurance programs;

o assures that the contractors' organizations performing Quality Assurance functions have sufficient authority and organizational freedom to implement effective Quality Assurance programs;

- o evaluate the Quality Assurance capability of suppliers requested by the Nuclear Materials Management Department and maintain the Quality Assurance Department list of Aapproved Ssuppliers List;
- provide NDE Level III services including technical direction and monitoring of NDE activities performed by Quality Control at the plant sites (PTN and PSL); preparation, revision and implementation of NDE procedures; training, testing and qualification of NDE personnel, and providing the programs and direction for NDE activities meeting the ASME, AWS and other NDE code requirements;
- o maintain a file system for documentation of quality assurance activities performed.

For purchased items and services, the responsibility of this group extends through receipt of shipment or performance of contract.

2) Site Quality Assurance Groups - Turkey Point Nuclear (PTN) and St. Lucie (PSL)

Quality Assurance activities at the plant sites (PTN and PSL) are accomplished by the respective site Quality Assurance Ggroups, reporting

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to the Site Quality Manager. The Site Quality Manager has responsibility for on-site development and implementation of the Quality Assurance Program, including the following:

- o coordinate the development and implementation of policies, plans, requirements, and procedures for portions of the quality assurance program related to the operation and modification of nuclear power plants at the plant site;
- o perform audits, assessments and other observations as specified in procedures and instructions to verify compliance with Quality Assurance Program commitments, identify quality problems and ensure timely corrective actions are taken in the areas of plant operation, system turnover, modification and maintenance; including such areas as refueling, inservice inspection and testing, material storage, health physics, chemistry, plant security and fire protection;
- o perform periodic activity audits of site generated FPL procurement and associated documents and changes to these documents to assure that the necessary quality requirements are imposed;
- o identify requirements, ensure inclusion of commitments in documents and verify implementation of the Quality Assurance Program during construction activities at the plant site through audits of FPL and contractor organizations;
- o recommend stoppage of work or operations adverse to quality at the plant site in accordance with the appropriate Quality instructions Procedures;
- o review and comment on Quality Instructions or equivalent quality administrative procedures prior to issue, with respect to the requirements of the FPL Quality Assurance Program, the applicable Final Safety Analysis Report, and the applicable Technical Specifications;
- o assure that the status is tracked for all open items identified by the Site Quality Assurance group, and inform appropriate management when there is an indication that a commitment will not be met on time;
- review backfit-procedures-with-respect to the FPL Quality Assurance

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Program (for procedure review requirements see TQR-5.0);

- o perform audits of the architect engineer and Nuclear Steam Supply System suppliers both on-site and off-site, in conjunction with the Quality Assurance Services group
- o maintain a file system for documentation of quality assurance activities performed by the Site Quality Assurance group.

The interface with the Quality Assurance Services group ends with the receipt of a shipment of nuclear safety-related equipment at the plant site. The Quality Assurance program for the shipment is then within the purview of the Site Quality Assurance group.

The Quality Manager - Turkey Point and Quality Manager - St. Lucie are additionally responsible for the establishment and implementation of quality control aspects of the Quality Assurance Program at the plant site. Reporting directly to the Site Quality Manager are the Quality Control Supervisors who have the authority and freedom to administer the Quality Control program and, when necessary, to stop activities adverse to quality. The Quality Control Supervisors and personnel performing Quality Control inspection functions are required to be independent of groups or persons performing activities that they may be required to verify or inspect.

Quality Control efforts responsibilities include:

- o preparation and review of plant procedures, PCMs design control documents, and instructions for activities affecting quality; Quality-Control personnel are also responsible for
- inspection, monitoring, surveillance, and review of plant activities to verify compliance with the provision of the facility operating license and the Quality Assurance Manual;
- o inspections are also performed to assure that backfit activities meet the requirements of engineering drawings, specifications, codes and standards;
- o <u>This responsibility extends from receipt inspections of material;</u>

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- on-site to acceptance of the installed items prior to turnover to the Plant;
   It also includes
- verification of conformance of an items or activityies accomplished during this period to quality requirements (e.g., records review, NDE, inspections); The Quality Control Supervisors shall take
- o corrective action for deficiencies identified, where applicable;
- and shall follow up on corrective action taken by other organizations until close out.

Off-site interfaces for the resolution of quality problems and NRC items are with Nuclear Corporate Staff, FPL support departments as indicated in this Topical Quality Assurance Report, the architect engineer and the Nuclear Steam Supply System (NSSS) Quality Assurance Department. The Site Quality Assurance group interfaces with the Plant Vice President and his staff on-site by assisting in the resolution of quality problems.

# 1.23.1.65 Nuclear Analysis and Controls Business Services

The Manager Nuclear Analysis and Controls Business Services , reporting to the President Nuclear Division, is responsible for coordinating the budget, rate, and cost control support to the plants and staff organizations; and coordinating Division business planning, target setting and monitoring of key performance indicators, and operations analysis activities.

# 1.23.2 Support Departments

Providing support activities for the Nuclear Division are Administrative Services, Environmental Affairs, Protection & Control Systems, and Information Management. The reporting relationship of each department is described in the following sections and is shown in Appendix A.

# 1.23.2.1 Administrative Services

Reporting to the Manager Administrative Services are the Supervisor Corporate Records

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| <del>Ser</del> | rices and the Supervisor-Documentary-Files.                                                                                                         |                    |
| <del></del>    | cices and the Supervisor Documentary Files.                                                                                                         |                    |
| <del> a.</del> | rices and the Supervisor Documentary Files.<br>Corporate Records Services<br>The Supervisor Corporate Records Manager Administr<br>responsible for: | rative Services is |

- assisting with the development and implementation of records and micrographics programs;
- maintaining a QARSET approved storage facility;
- b. Documentary Files

The Supervisor Documentary-Files is responsible for

o receiving, maintaining, retrieving and storing the Quality Assurance records transmitted from other departments in connection with licenses and contracts received from other departments.

### 1.23.2.2 Environmental Affairs

Environmental Affairs is responsible for obtaining the federal and state environmental permits required for FPL facilities and operations. Environmental Affairs is responsible for overall coordination of non-radiological environmental monitoring (federal and state) programs at the nuclear power plant sites.

The Manager Hazardous Substances Regulation, the Manager New Construction Licensing and Planning, the Manager Air and Water Permitting and Programs, the Chief Ecologist, and the Environmental Toxicologist report to the Director Environmental Affairs. The Plant Vice President has overall responsibility for implementation of the Environmental Protection Plans at nuclear power plant sites.

The Director Environmental Affairs Department-through its management of the Company Environmental Review Group (CERG) is responsible for:

o overall coordination of non-radiological environmental monitoring programs and

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oversight of other requirements related to the Environmental Protection Plans;

- The-CERG-providesing review of proposed changes to the Environmental Protection Plans;
- review of any violations of monitoring and/or limitation requirements of federal and state permits and Environmental Protection Plans; and
- review of plant activities as described in those Environmental Affairs Department Environmental Procedures subject to QA requirements.

The CERG provides information to the Director Environmental Affairs and the CNRB Chairman on environmental matters for which requirements are included in Environmental Protection Plans.

# 1.23.2.3 Protection & Control Systems

The Director of Protection & Control Systems reports to the Vice President of Power Delivery.

Protection & Control Systems is responsible for:

- test, calibration and maintenance of certain high voltage electrical protective relays for safety-related systems of the nuclear plant;
- o Activities of Protection & Control Systems include final wiring connection checks;
- o preoperational check-out and test of system protection devices; and
- providing inspection of equipment under their cognizance; Additional responsibilities include
- o providing certain setpoint and checkpoint values for protective devices.

# 1.23.2.4 Information Management

Information Management consists of Computer Operations Services, Client Services, and Quality Management reporting to the Vice President of Information Management.

The Computer Operations Services Department is responsible for the installation and

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maintenance of the operating system software and the operation of the computer hardware for FPL's corporate computer systems. The application programs used by the nuclear departments executes on these corporate computers.

The Manager Computer Center, the Manager Operations Support Services, and the Manager Technical Systems report to the Director Computer Operations Services.

Client Services is responsible for software libraries on FPL's in-house time-sharing Computer System (CMS) that are under its control.

Quality Management provides support to the Nuclear Division in their development and maintenance of computer applications in the area of software library controls.



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#### 2.1 **GENERAL REOUIREMENTS**

Florida Power & Light Company has established a Quality Assurance Program which complies with the criteria of 10 CFR 50 Appendix B, and meets the requirements of Regulatory Guides and Industry Standards referenced in Appendix C of this report. The Topical Quality Requirements and attached Policy Statement, together with-the Quality-Procedures-and Quality Instructions document the Program and the FPL policy with regard to Quality Assurance. This Program shall be instituted for each plant site in a schedule consistent with accomplishing the required activity and shall be carried out throughout the life of FPL nuclear plants.

The requirements of the FPL Quality Assurance Program shall only apply to nuclear safety related structures, systems, and components as identified in the Safety Analysis Report for each nuclear unit. Additionally, the requirements of the FPL Quality Assurance Program shall apply to all FPL, contractor, or consultant organizations performing activities affecting the quality of safety related structures, systems, and components of FPL nuclear power plants. Portions of the FPL Quality Assurance Program requirements are also applicable to Quality Related items and services. Those portions applicable to specific Quality Related items or services shall be delineated in appropriate instructions.

Documented procedures shall require and define indoctrination and training of personnel performing activities affecting quality as necessary to assure that suitable proficiency is achieved and maintained.

Periodic program reviews of the status and adequacy of the FPL Quality Assurance Program shall be accomplished by the independent audit team described in Section 2.2.6.d and by Quality Assurance Department audits.

Management of organizations outside Florida Power & Light Company participating in the Program shall be required to regularly review the status and adequacy of that part of the FPL Quality Assurance Program which they are executing. The FPL Quality Assurance Department shall review and concur in the Quality Assurance Program of contractors.



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# 2.2 IMPLEMENTATION

2.2.1 Goals and Objectives

As stated in the Policy Statement of the President of the Nuclear Division, the goal of the FPL Quality Assurance Program is to maintain quality levels in an effective and efficient manner, and to assure the high degree of functional integrity and reliability of nuclear safety related structures, systems, and components. To meet this goal, the following objectives of the FPL Quality Assurance Program have been defined:

- a. Define through documented procedures and instructions the quality activities that apply to the design, fabrication, procurement, modification, testing, operation, refueling, maintenance, and repair of nuclear power plants;
- b. Establish, assign, and document the responsibilities for those activities affecting quality of safety related structures, systems, and components;
- c. Establish confidence that the design, fabrication, modification, and operation of nuclear power generation facilities are performed in a manner consistent with FPL policies by assuring activities affecting quality are performed by responsible personnel;
- d. Apprise management of unresolved problems and trends which could have a significant effect on nuclear power plant safety; and
- e. Prevent schedule delays and high cost due to poor quality.

### 2.2.2 Program Documentation

The Topical Quality Assurance Report, which defines the policy, goals, and objectives, responsibilities and interfaces regarding the Quality Assurance Program, shall be contained in the FPL Quality Assurance Manual, and used as guidance for the development of corporate level-Quality Procedures Quality Instructions. which are also-contained in the Quality Assurance Manual, Revisions to the Topical Quality Assurance Report will be made, as needed, to reflect current FPL program requirements
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and descriptions of activities. These revisions shall be made in accordance with a Quality Procedure a Quality Instruction. If a program reflects a reduction of the commitments from the baseline documents contained in Appendix C, the revision shall be submitted to and approved by the NRC prior to implementation.

In all other cases, amendments to the Topical Quality Assurance Report will be submitted to the NRC to reflect implemented program revisions on an annual or more frequent basis.

Quality Procedures—shall be written by the department with major responsibilities for an activity, or by the Quality Assurance Department when requested.—These procedures shall be reviewed by all the departments with responsibility for some portion of that procedure, and shall be approved by the major implementing departments with co-approval by the Vice President Nuclear Assurance.—A listing of corporate level Quality Procedures is contained in Appendix E...

Each-Quality-Procedure shall be written to further-address criteria contained in the Topical Quality-Requirements and to further define the FPL Quality Assurance policies, plans, and program where action is required by more than one department.

Each department head shall have the responsibility for implementation of the Quality Assurance Program, which includes compliance with procedure requirements applicable to the department. In addition, each department head shall be responsible for the preparation, approval, and distribution of Quality Instructions, operating procedures, testing procedures, or other instructions where further guidance is necessary for implementation of the Quality Assurance Program requirements within the department. Quality Instructions shall be reviewed by the Quality Assurance Department at each revision.

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# 2.2.3 Structures, Systems, and Components

The requirements of the FPL Quality Assurance Program shall apply to nuclear safety related structures, systems, and components, as defined in the SAR. Safety related structures, systems, and components are listed as those necessary to assure the integrity of the reactor coolant boundary, the capability to shutdown the reactor and maintain it in a safe shutdown condition, or the capability to prevent or mitigate the consequences of accidents which could result in off-site exposures comparable to the guideline exposures of 10 CFR 100.

Control over activities affecting the quality of safety related structures, systems, and components shall be to the extent consistent with their importance to safety. Such control shall include use of appropriate equipment, establishment of suitable environmental conditions, and assurance that all prerequisites for a given activity have been satisfied. The Program shall provide for controls over special processes and skills necessary to attain the required quality, and the need for verification of quality by inspection and test.

Advance-planning is required, for the control of management and technical interfaces between FPL and contractors, during the phase out of design and construction and during preoperational testing and plant turnover. This is achieved through periodic meetings of concerned organizations and the development of procedures which define responsibilities and interfaces, and control the testing and turnover of plant systems to FPL.

# 2.2.4 Participating Organizations

The FPL organizations with responsibilities for activities affecting quality of nuclear safety related structures, systems, and components are identified in TQR 1.0, which also briefly describes their assigned responsibilities.



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Florida Power & Light Company may delegate activities to contractor organizations and equipment vendors. Delegated activities are subject to the external organization's FPL approved Quality Assurance Program or the FPL Quality Assurance Program, or some FPL approved combination thereof.

However, FPL shall retain overall responsibilities for the Quality Assurance Program. Procurement documents shall define the scope of delegated activities, as well as Quality Assurance Program requirements that shall govern these activities.

The Quality Assurance Department shall review and approve the Quality Assurance Program governing contracted activities prior to award of contract except for activities for which the output is of a conceptual and/or prototype nature. In all cases, final approval shall occur at a point in the process to ensure that the output complies with the requirements of the FPL approved Quality Assurance Program. The object of this review shall be to verify that the program is in compliance with the applicable requirements of Appendix B, 10CFR50, and ANSI N45.2. Audits shall be conducted periodically to verify the acceptable implementation of the contractor's FPL approved Quality Assurance Program governing delegated activities. The Quality Assurance Department is responsible for conducting these audits. The initial review and periodic audits shall be performed by qualified Quality Assurance Department personnel, and as appropriate, by technical specialists from other FPL departments and contractor organizations.

# 2.2.5 Indoctrination and Training

A program shall be established and maintained for quality assurance indoctrination, and for training which assures that the required level of personnel competence and skill is achieved and maintained in the performance of activities affecting quality. Quality Procedures Instructions shall delineate the requirements for an indoctrination program to assure that personnel responsible for performing activities affecting quality are instructed in the purpose, scope, and implementation of the manuals, instructions, and procedures and that compliance to these documents is a mandatory requirement.

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Quality Procedures Instructions shall also require the head of each department (including the Quality Assurance Department) to be responsible for a training plan which assures that personnel performing activities affecting quality are trained in the principles and techniques of the activity being performed. This training shall maintain the proficiency of personnel in the skills necessary through retraining, requalification or reexamination, as appropriate. This training shall be conducted to reflect significant procedure changes, or plant modifications which significantly affect the operation of the department. When personnel are assigned to perform their functions under the direction of personnel from other than their home department, the department head of the organization providing direction is responsible for the indoctrinaton and training of personnel who perform activities under their direction. Quality Procedures Instructions shall specify the requirements for documenting indoctrination and training sessions, including a course description, attendance, location, and date. Records shall contain sufficient information to identify persons in attendance with the corresponding lesson plans.

# 2.2.6 Management Participation

In addition to the involvement of department heads in implementing the Quality Assurance Program within their departments and the involvement of the Vice President Nuclear Assurance and the Quality Manager - Juno Beach in the development, coordination, and review of the Program, the Company Nuclear Review Board (CNRB) shall be apprised of the status and adequacy of the Quality Assurance Program on a periodic basis. The following actions shall be instituted to assure that the CNRB remains informed and meets its Program responsibilities:

- a. The CNRB shall review a summary of the results of management level Quality Assurance audits of FPL Departments.
- b. The Quality Assurance Department shall circulate monthly reports of activities to members of the CNRB and affected department heads. The monthly reports may include such items as the status of audits, a summary of audit findings, the status of development projects, and descriptions of policy matters or problems requiring management attention.

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- c. The CNRB shall review the status of the Quality Assurance Program on a semiannual basis. The review will include assessment of the Program goals, objectives, and accomplishments.
- d. Periodic audits of the Quality Assurance Department and Program shall be conducted by an independent audit group under the direction of the Vice President Nuclear Assurance. This audit group shall employ FPL audit procedures and shall distribute the audit report to the Vice President Nuclear Assurance, and to the CNRB for review of findings and corrective action. Auditor certifications of independent audit teams will be retained by the Quality Assurance Department.

The programs of contractor organizations that perform activities affecting quality shall be reviewed by Quality Assurance to assure that their management regularly reviews the status and adequacy of that part of the FPL Quality Assurance Program which they are executing.

# 2.3 **RESPONSIBILITIES**

- 2.3.1 Each direct report of the President, Nuclear Division and Department Heads of organizations supporting the Nuclear Division shall be responsible for:
  - 1. Reviewing changes to the FPL QA Manual and determining the need for departmental instructions, revising existing instructions, and approving instructions;
  - 2. Controlling distribution and coordinating the use of the instructions with affected organizations and functions;
  - 3. Submitting Quality Assurance Indoctrination (QAI) lesson plans to the Vice President Nuclear Assurance for approval to conduct their own QAI.

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2.3.2 The Vice President Nuclear Assurance has overall responsibility for:
1. Development, coordination, and periodic reviews of the status and adequacy of the FPL Quality Assurance Program;

- 2. Establishing, conducting, reviewing and authorizing the implementation of FPL's requirements for QAI;
- 3. Coordinating revisions to the Topical Quality Assurance Report.

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# 3.1 GENERAL REQUIREMENTS

A Quality Assurance Program shall be established for design-related activities. . This The design control program shall ensure that the design is defined, controlled and verified; that applicable design inputs are specified and correctly translated into design output documents; that design interfaces are identified and controlled; that design adequacy is verified by persons other than those who designed the item; and that design changes, including field changes, are governed by control measures commensurate with those applied to the original design.

Design records shall be developed to provide evidence that the design process and design verification were performed in accordance with the requirements of FPL's Quality Assurance Program. The-design-organization-(Nuclear-Engineering-or-designated contractor organization) shall be responsible for the content of these records.

Design records shall include design output documents and the important steps in the design effort. The intent of this documentation is to allow a technically qualified person to understand how the design was developed, and to allow that person to verify the design based on the design documentation and engineering data sources referenced therein.

Documents and databases designating safety related and quality related items and any revisions thereto shall be controlled in accordance with the FPL QA Program requirements.

# 3.2 IMPLEMENTATION

The controlling document for the identification of safety related items shall be the FSAR. Where the FSAR is not definitive for a specified plant, Nuclear Engineering shall develop and maintain documents/databases identifying those items which are safety related (e.g., plant equipment database, Instrument List, Valve List, Line List, drawings, etc). These documents/databases shall clearly identify the boundaries of safety related

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systems and may take the form of identifying boundaries on engineering drawings. For quality related items, Nuclear Engineering shall specify explicitly those aspects of design, manufacture, procurement, installation, and testing that shall be subject to the FPL QA Program requirements, as appropriate, in the design output. documents (e.g., Plant Change/Modification package).

The design organization's Quality Assurance Program for design control shall be approved by the FPL Quality Assurance Department prior to the release of approved design output by the design organization. The design organization is the organization responsible for approval of design output. Quality-Procedures-and Quality Instructions shall be developed to delineate design control requirements governing design-related activities performed by Nuclear Engineering and for delegating activities to contractor organizations.

Design data approved by the design organization shall be transmitted in design output documents such as specifications, drawings, and other documents defining technical requirements or in correspondence which may reference these documents. Transmittals shall identify the status of design information or documents provided, and where necessary, identify incomplete items which require further evaluation, review, or approval. A standard PC/M and numbering system shall be established and used at each plant to ensure that all PC/Ms are handled in a uniform manner and properly documented. Nuclear Engineering shall forward the approved PC/M to the applicable Plant Vice President. Internal plant coordination and review of design control documents shall be controlled by approved instructions.

#### 3.2.1 Design Process

The design organization shall specify and document its design activities to the level of detail necessary to permit the design to be developed in a correct manner and to permit verification that design output documents satisfy design input requirements.

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Design methods, materials, parts, equipment and processes, including those associated with commercial grade items that are essential to the function of the structure, system or component item shall be selected, reviewed and approved for suitability of application by the design organization.

Design inputs shall be identified, documented, reviewed and approved by the design organization. They shall be specified to the level of detail necessary to permit the design activity to be carried out in a correct manner, and to provide a consistent basis for making design-related decisions, performing design verification and evaluating design changes. Changes to approved design inputs, including the reason for the changes, shall be approved, documented and controlled by the design organization.

The design organization shall identify aspects of manufacture, construction, inspection and testing critical to achieving the function of the structure, system or component item. Quality standards and quality requirements shall be specified on design output documents. Changes from approved quality-related requirements specified in design output, including the reason for the changes, shall be approved, documented and controlled by the design organization.

Design analyses shall be controlled and documented. Approved design output documents and approved changes thereto shall be relatable to the design input by documentation in sufficient detail to permit verification. The design organization shall establish procedures to review industry design experience. As appropriate, this experience shall be made available to cognizant design personnel.

# 3.2.2 Design Change Control

Changes to approved design output documents, including field changes, shall be justified, subjected to control measures commensurate with those applied to the original design, and shall be reviewed and approved by the same design organization that approved the original design unless other organizations are specifically designated.

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Where a significant design change is necessary because of an incorrect design, Nuclear Engineering shall determine the cause of the incorrect design. As necessary, design and verification procedures shall be reviewed and modified to correct the cause of the incorrect design.

During the operations phase, dDesign changes shall also be reviewed by operating plant management and Quality Control. The intent of this review is to ensure that implementation of the design change is coordinated with any necessary changes to operating procedures and practices, and required Nuclear Assurance Quality Control Surveillance activities, such as inspections and surveillances.

In accordance with plant technical specification requirements, nuclear safety-related design changes are reviewed by the Plant Nuclear Safety Committee (PNSC) or Facility Review Group (FRG) and the Company Nuclear Review Board (CNRB).

#### 3.2.3 Design Interface Control

The design organization shall be responsible for identification, control, resolution and documentation of design interface requirements. Procedures Quality Instructions shall establish interface controls between participating organizations and between the various technical disciplines within the design organization. These Quality Instructions procedures shall include the assignment of responsibility, and be in sufficient detail to cover the preparation, review, approval, release, distribution and revision of design output documents.

For interdisciplinary design, approval documentation of each involved discipline of the design organization shall appear on the design output document or on a separate document directly traceable to the design output. The design organization shall designate a discipline(s) responsible for resolution of the comments of participating organizations. The designated discipline(s) approval of a design output shall also document resolution of the comments of participating organizations.

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#### 3.2.4 Design Verification

Design control measures shall be established to independently verify the design inputs, design process, and that design inputs are correctly incorporated into design output. The design organization shall develop procedures instructions that govern design verification. These procedures instructions shall require that the design organization identify and document the verification method utilized and that the documentation clearly identify those individuals performing the design verification.

Design verification shall be performed by technically qualified individual(s) or group(s) other than those who performed the design. The original designers and verifiers may both be from the design organization. Design verification by the designer's immediate supervisor shall be limited to those instances where the supervisor is the only qualified individual available within the design organization. These instances are further restricted to designs where the supervisor did not specify a singular design approach, or did not restrict design methods or alternatives, or did not specify design inputs (unless the specified design inputs have already been independently verified). Justification for verification by the designer's immediate supervisor should be documented along with the extent of the supervisor's involvement in the design.

The design organization shall be responsible for determining the extent of design verification and methods to be employed. The methods may include one or more of the following: the performance of design reviews, the use of alternate calculations, or the performance of qualification tests. This shall apply to original design and to changes to approved design output.

Where reverification is not required for a design change, the bases shall be documented by the design organization. Cursory supervisory reviews and mathematical checks for calculation accuracy do not satisfy the independent design verification requirement. Design verification shall normally be completed prior to release of design output for procurement, manufacture or release by the design organization for use in design activities by a participating organization. Verification shall be conducted based on the status of

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design at the time of release of design documents. Where this timing cannot be met, verification may be deferred provided that the unverified portion of the design output, and all design output documents, structures, systems and components based on the unverified portion of design are identified and controlled. In all cases verification shall be completed prior to relying on any affected items to perform their design functions.

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#### 3.2.5 Computer Programs/Software

Organizations utilizing computer programs/software as a method for design shall maintain instructions or procedures to effect the following:

- 1. That such programs/software are verified for their particular use using benchmark problems, alternate calculations, comparison with other code or experimental results, design review or similar methods,
- 2. That such programs/software have been qualified for their specific application sufficient to ensure valid results,
- 3. That such programs/software are provided with user instructions sufficient for a technically competent individual to follow,
- 4. That configuration controls are provided to assure that such programs/software changes or modifications are documented and controlled.

# 3.3 **RESPONSIBILITIES**

# 3.3.1 The Vice President Nuclear Engineering and Licensing is responsible for:

- 1) determining and documenting which items are nuclear safety related or quality related;
- 2) the review and coordination of design interfaces;
- 3) assuring that design documents are reviewed for possible design interfaces, that interface problems are resolved and that design criteria and design interface changes are reviewed by participating organizations prior to approval of design documents;



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- 4) preparing design documents, including performing the safety evaluation or screening to determine if the proposed design change involves an Unreviewed Safety Question or a change to the Technical Specifications;
- 5) performing design verification, including evaluation of the effects of proposed design changes on overall design adequacy (design integration);
- 6) providing Nuclear Engineering approval of design documents;
- 7) updating design documents and drawings according to applicable' procedures;
- 8) coordinating the NRC interface for 10 CFR 50.59 reports.
- 3.3.2 The Site Vice President is responsible for:

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- 1) reviewing, tracking the status of, and maintaining a file on proposed PC/Ms;
- 2) reviewing proposed PC/Ms for inclusion of appropriate quality criteria, standards, and hold points, including human factors considerations for design changes involving the Control Room or Remote Shutdown Panel;
- 3) reviewing completed PC/Ms, after implementation for compliance with governing procedures, including a review of all endorsements, sign-offs, completion of required acceptance testing/inspection, and any necessary changes to operating practices and procedures;
- 4) maintaining design documents as Quality Assurance records.
- 5) assuring that all plant design changes and drawing changes are coordinated through Nuclear Engineering;
- 6) determining whether or not a proposed design change affects nuclear safety;
- 7) approving or disapproving implementation of the proposed design change after receipt of a recommendation from the Plant Nuclear Safety Committee (PNSC) or Facility Review Group (FRG);



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- 9) ensuring the Environmental Affairs Department is included in the proposed PC/M review if the design change may have an adverseimpact on the environment;
- 10) reviewing design changes to ensure that the implementation of the design change is coordinated with any necessary changes to operating practices and procedures;
- 3.3.3 The Plant Nuclear Safety Committee (PNSC) or Facility Review Group (FRG) is responsible for:
  - 1) reviewing all proposed PC/Ms for plant systems or equipment related to nuclear safety;
  - 2) rendering a determination in writing (PNSC/FRG meeting minutes) as to whether or not the proposed design change constitutes an Unreviewed Safety Question.
- 3.3.4 The Vice President Nuclear Assurance is responsible for:
  - 1) reviewing PC/Ms for inclusion of appropriate quality criteria, standards, hold points, and Nuclear Assurance activities.
- 3.3.5 The Company Nuclear Review Board (CNRB) is responsible for:
  - reviewing Safety Evaluations for design changes to verify that the design changes did not constitute an Unreviewed Safety Question. CNRB review of evaluations involving screening rather than Safety Evaluation is not mandatory;
  - 2) reviewing proposed design changes which involve an Unreviewed Safety Question or a change in Technical Specifications or License.

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# 4.1 GENERAL REOUIREMENTS

Procurement of items and services shall be performed in accordance with procedures and instructions which assure that applicable regulatory requirements, design bases, code requirements, and other requirements necessary to assure quality shall be included or invoked by reference in the procurement document. These procedures and instructions shall delineate the sequence of actions to be accomplished in the preparation, review, approval, and control of procurement documents. Changes to procurement documents shall be subjected to the same degree of control as utilized in the preparation of the original documents.

# 4.2 IMPLEMENTATION

# 4.2.1 Procurement Document Provisions

Quality Procedures and Quality Instructions shall identify the responsibilities and actions required of the organizations originating, reviewing, approving, and controlling procurement documents. These procedures instructions shall require the procurement documents to specify:

- a. The scope of work to be performed.
- b. Technical requirements (by specifying or referencing) which shall include the applicable components and materials identification requirements, drawings, specifications, procedures, instructions, codes, and regulations and provide for identification of applicable test, inspection and acceptance requirements, or special process instructions.
- c. Quality Assurance Program requirements to be imposed on contractors which shall include the applicable portions of 10 CFR 50, Appendix B.
- d. Right of access which provides, as appropriate, for access to contractor facilities and records for inspection or audit by FPL or its designated representative, and to access for events such as witness and hold points.

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e. The documentation required to be prepared, maintained, and/or submitted to FPL or its representative for review, approval, or historical record. The time of submittal of this documentation and the retention and disposition of Quality Assurance Records which will not be delivered to FPL shall be prescribed.

Consideration shall be given to the need for special requirements in the preparation and review of procurement documents. Procedures and instructions shall be prepared and implemented for special on-site handling or storage requirements. The receiving department shall be-responsible-for ensure on-site implementation of the special handling, shipping, and storage requirements for items received and controlled by their organization.

Special handling, preservation, storage, cleaning, packaging, and shipping requirements shall be specified, as appropriate, in the design documents or purchase orders. The requirements established in the design documents or purchase orders shall be consistent with industry accepted standards, the importance of equipment or material to nuclear safety, and the material or equipment's sensitivity to damage. The preparation of these design documents or purchase orders may be delegated by FPL to other organizations.

#### 4.2.2 Procurement Document Review

Procurement documents shall be reviewed for correctness, and inspectability and controllability of quality requirements in accordance with Quality-Procedures and Quality Instructions to assure that the appropriate provisions of Section 4.2.1 are included. This review shall be documented and performed by designated personnel who have been trained and qualified in quality assurance practices and concepts. These reviewers shall have access to pertinent information and have an adequate understanding of the quality and technical requirements and intent of the procurement documents.

Spare or replacement parts for safety related structures, systems, and components are subject to technical or quality requirements equivalent to, or better than, those used for the original equipment.

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Changes to procurement documents, whether initiated by FPL or their representative, are subjected to the same degree of control as that utilized in the preparation of the original document.

#### 4.2.3 Selection of Procurement Sources

The Nuclear Materials Management Department shall verify It shall be verifed that the procurement document has been reviewed and approved, and that the supplier has been approved prior to issuing the purchase order for safety related materials or services. Verbal purshase orders shall be made in accordance with TQAR Appendix C exceptions to ANSI N45.2.13. Supplier approval is not necessary if the important characteristics of the item can be verified by inspection or test.

The overall procurement requirements, including those related to planning, bid evaluation, and review and concurrence of suppliers Quality Assurance programs, are described in Quality Procedures and Quality Instructions.

#### 4.3 RESPONSIBILITIES

- 4.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division originating a procurement requisition shall be responsible for:
  - 1) clearly describing the technical and quality considerations for the procurement of items or services;
  - 2) specifying any special requirements;
  - specifying documentation required from the supplier; 3)
  - 4) specifying special handling, preservation, storage, cleaning, packaging, and shipping requirements, as appropriate.



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| 4.3.2 | The Vice P                        | resident Nuclear Engineering and Licensing is re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | esponsible for :                          |
| •     | 1) perfor<br>and qu<br>items      | ming technical evaluations to verify and/or estab<br>Jality requirements for permanent and temporary<br>and services;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | lish technical '<br>power plant           |
|       | 2) review<br>orderin              | ing procurement documents and changes thereto<br>ng requirements are technically correct and composition are technically correct | to assure that<br>plete for items         |
|       | 3) evaluat<br>what i              | ting the interchangeability of items that are not it<br>s currently installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dentical to                               |
| 4.3.3 | The Vice P                        | resident Nuclear Assurance is responsible for:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |
| ·     | 1) assistin                       | ig in the resolution of quality requirements;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
|       | 2) approv<br>grade i              | ing suppliers for safety related procurement an item procurement (when applicable);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | d commercial                              |
|       | 3) identify<br>facility<br>relied | ying surveillance witness and/or hold points at the<br>for safety related procurement when supplier (<br>upon and programmatic deficiencies dictate:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | he supplier's<br>)A program is            |
|       | 4) perform                        | ning supplier surveillance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <i>.</i>                                  |
| 4.3.4 | 'The Plant V                      | ice President and Vice President Nuclear Enginee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ering and                                 |
|       | Licensing, co                     | ognizant for the issuance of a procurement docur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ment is                                   |
|       | 1) incorpo<br>procure             | orating requisition technical and quality requirement documents;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ents into the                             |
| ٩     | 2) notifyin<br>supplier           | ng Nuclear Assurance of discrepancies and/or cha<br>r activities which may conflict with the work sco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | anges in<br>ope of Nuclear                |
|       | 3) reviewin<br>accorda<br>and res | nce approved suppliers;<br>ng each procurement document to ensure that it i<br>ince with Nuclear Assurance approved supplier<br>strictions (when applicable) and the originating pr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | s correct, in<br>work scope<br>cocurement |

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4) referencing and attaching appropriate Quality Assurance Program requirements, as referenced on respective procurement requisitions, requests for bid proposals, purchase orders and contracts;

5) verifying that the procurement document has been reviewed and approved and issuing procurement documents to suppliers, as approved by FPL Nuclear Assurance when supplier QA programs are required;

6) maintaining traceability of procurement document records until transmitted to an approved storage facility.

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#### INSTRUCTIONS, PROCEDURES AND DRAWINGS QP DELETION PROJECT

# 5.1 GENERAL REQUIREMENTS

Activities affecting quality of nuclear safety-related structures, systems, and components shall be prescribed by documented instructions, procedures, or drawings of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings. These documents shall include appropriate quantitative criteria such as dimensions, tolerances, and operating limits, and qualitative criteria such as comparative workmanship samples, to assure that the quality assurance activity has been satisfactorily accomplished.

# 5.2 IMPLEMENTATION

# 5.2.1 Quality Assurance Program Documents

The FPL Quality Assurance Manual described in TQR 2.0 contains corporate Quality Procedures the Topical Quality Assurance Report which complyies with the criteria of 10 CFR 50, Appendix B. Quality Procedures and department-level Quality Instructions provide direction for activities affecting quality. The Quality Assurance Department reviews and comments on Quality Instructions written by other departments. Comments concerning compliance with corporate Quality Assurance commitments and regulatory requirements are resolved prior to issuance. The Quality Assurance Department receives controlled copies of Quality Instructions issued by other departments.

# 5.2.2 Procedures and Instructions

Instructions and procedures for activities affecting quality shall be prepared, reviewed; and approved in accordance with written Quality Procedures or Quality Instructions.

For plant operations, on-site plant procedures shall be prepared, reviewed, and approved in accordance with written instructions which includes a review for concurrence by Quality Assurance or Quality Control personnel and provisions for temporary changes and temporary procedures. These plant procedures include operating procedures, off-normal and emergency procedures, test procedures, and calibration

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procedures. Also included are maintenance and repair procedures for subcontracted maintenance and repair activities which are outside the normal scope of plant craft capability. Temporary procedures may be issued during testing, refueling, maintenance, modifications, unusual situations not within the scope of normal procedures, and for short periods when the plant, system or component is performing in a manner not covered by existing detailed procedures or has been modified in such a manner that portions of existing procedures do not apply.

For backfit activities, cContractors shall be required to have Quality Assurance Programs which contain written instructions for preparation, review, and approval of procedures, instructions, and drawings affecting quality. In addition, Contractor's site procedures and Quality Control inspection procedures shall be approved by an FPL-Site-Construction Services-Manager the Plant General Manager, or designee, following reviews by Quality Assurance or Quality Control personnel to assure compliance with Corporate commitment and regulatory requirements.

During the design, modification, and procurement phases, the Architect/Engineer or other contractors may be delegated responsibility for maintaining, issuing and verifying the implementation of appropriate program documents. In this case, Quality Assurance or Quality Control -Department audit and/or Quality-Control surveillance activities shall assure that such measures are established and implemented. Contractor programs shall clearly delineate the actions to be accomplished in the preparation, review and control of instructions, procedures and drawings, and the methods for complying with the appropriate criteria of 10 CFR 50, Appendix B. A-plant change or modification of -a magnitude requiring the assignment of a-Site Construction Services Manager shall be cubject to the Quality Assurance Program as discussed above.

#### INSTRUCTIONS, PROCEDURES AND DRAWINGS QP DELETION PROJECT

# 5.2.3 Drawings

The design organization is responsible for review and approval of drawings. For delegated design activities, the Nuclear Engineering and Licensing Department may approve changes to drawings. The technical control of drawings, i.e., review and approval of the drawing and all changes thereto shall be governed by procedures. A means shall be developed and updated as required to identify approved drawings and revisions thereto. A Master Drawing List is the normal means used for this.

# 5.2.4 Acceptance Criteria

Quality Procedures and Quality Instructions shall require that quality-related instructions, procedures, and drawings affecting quality include adequate quantitative and qualitative acceptance criteria, as appropriate, for determining satisfactory work performance and quality compliance. These acceptance criteria requirements apply to important activities such as design, operations, test control, inspection, and plant modifications.

# 5.3 Responsibilities

- 5.3.1 Each direct report to the President Nuclear Division and Department Heads of organizations supporting the Nuclear Division is responsible for:
  - a. Establishment of a documented system for the preparation, review, approval and revision of procedures. This system shall comply with regulatory requirements, the applicable Plant Technical Specifications and Topical Quality Requirements.
- 5.3.2 The Vice President Nuclear Assurance is responsible for:
  - a. Review and concurrence of procedures affecting quality in accordance with paragraph 5.2.

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# 6.1 **GENERAL REOUIREMENTS**

The distribution of documents such as instructions, procedures, drawings, and software which provide guidance, specifications, or requirements affecting the quality of nuclear safety-related structures, systems, and components shall be controlled. These documents shall be prepared, reviewed for adequacy, and approved for release by authorized personnel in the affected organization. These documents shall be distributed to locations where the activity is performed.

Changes to controlled documents shall be so identified and shall be reviewed and approved by the same organization that performed the original review and approval unless otherwise specified in the implementing procedures. In addition, procedures shall preclude the possibility of use of outdated documents.

# 6.2 IMPLEMENTATION

# 6.2.1 Responsibility

Quality Procedures Instructions shall delineate the control measures for controlled documents-including direction for the review for adequacy, approval by authorized personnel, distribution of controlled documents and verification that changes are received, that provide for:

- 1. Identification of individuals or organizations responsible for preparing, reviewing, approving, and issuing documents and revisions thereto.
- 2. Identifying the proper documents to be used in performing the activity.
- 3. Coordination and control of interface documents.
- 4. Ascertaining that proper documents are being used.
- 5. Establishing current and updated distribution lists.

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These control measures shall apply to documents affecting the quality of nuclear safetyrelated structures, systems, and components such as:

- a. design specifications;
- b. design, manufacturing, construction, and installation drawings;
- c. quality program manuals, procedures, and instructions;
- d. inspection, manufacturing, and test procedures and instructions;
- e. plant operating and maintenance procedures;
- f. plant Safety Analysis Reports and related design criteria documents.

The requirements for control of procurement documents are contained in TQR 4.0.

During all phases of the plant life, it shall be the responsibility of each organization issuing and using controlled documents to use document control procedures. Procedures shall document the responsibility for review, approval, maintenance and distribution of documents including assuring revisions are initiated to interfacing documents within their organization.

During the design and construction phase and for operating plant changes under their cognizance, the Architect/Engineer, Nuclear Steam Supply System vendor, and other contractors shall be responsible for assuring that all revisions required as a result of FPL comments, nonconformances, or engineering work are incorporated into revised documents. MOVED TO SECTION 6.3.

6.2.2 Distribution of Controlled Documents

 Quality Procedures shall specify-that controlled documents and revisions be distributed to locations where the activity is performed.

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#### 6.2.3 Drawing Control

#### 6.2.2

FPL assumes control of the drawings and Master Drawing List after initial operation of the facility or delegates this activity to a qualified contractor. Nuclear Engineering shallrequire that participating design organizations update the drawings and Master Drawing List to reflect the as-built conditions of the facility prior to FPL's acceptance of these documents.

Maintenance, distribution and control of the drawings and the Master Drawing List by FPL during the operation phase shall be assigned to a drawing custodian. Revision to drawings shall be approved prior to release by the drawing custodian. Approval shall be by Nuclear Engineering, or a designated design organization.

# <del>6.2.3</del>

6.2.2

During the operation phase a system shall be established to provide ready access and availability of drawings to engineering and operations personnel; to identify drawings affected by approved plant design changes; and to update drawings and the Master Drawing List to reflect implemented design changes.

# 6.2.4 Design Documents Other Than Drawings

6.2.3

Ascertaining that proper design documents are accessible and are being used may shall be accomplished by periodic issuance of master document lists showing the latest applicable revision, or by a document receipting system.

# 6.2.5 --- Instruction & Procedure Control

Participating organizations shall be responsible for development, maintenance and control of those documents identified in paragraph 6.2.1 issued by them as controlled documents. Each organization shall be responsible for the adequacy of their procedures. MOVED TO SECTION 6.3.

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6.2.6-Obsolete Documents

- Controls-established by-Quality-Procedures-and-Quality-Instructions-shall-assure-that outdated copies-of-controlled documents-are-not-inadvertently-used. Moved to Section 6.2.1.

# 6.3 <u>RESPONSIBILITIES</u>:

6.3.1 Direct reports to the President, Nuclear Division, and Department Heads

of organizations supporting the Nuclear Division shall be responsible for:

- a. the development, maintenance and control of those documents identified in Section 6.2 issued by them as controlled documents.
- b. the adequacy of their instructions, including the instructions for control of

the documents and changes thereto to preclude the possibility of use of outdated or inappropriate documents.

- 6.3.2 Each recipient of a controlled document is responsible for ensuring that the appropriate latest revision is being used.
- 6.3.3 The Director Nuclear Engineering The Vice President, Nuclear Engineering & Licensing, is responsible for assuring that the Architect-Engineer, Nuclear Steam Supply System vendor, and other contractors, as a minimum,
  - a. provide for the development, control and distribution of drawings, specifications and procedures; and the development and periodic distribution of a master drawing list for each project.
  - b. provide for all revisions required as a result of FPL comments, nonconformances, or engineering work are incorporated into revised documents.

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6.3.4 The Director Nuclear Construction Services The Site Vice President is responsible for establishing a document distribution and control system to assure that the latest appropriate revisions of documents are used for construction and installation at each project site.

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#### CONTROL OF PURCHASED ITEMS & SERVICES QP DELETION PROJECT

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# 7.1 GENERAL REOUIREMENTS

Measures shall be established to assure that <del>cafety related</del> items or services purchased by or for FPL conform to the requirements of the procurement document. These measures shall include documented evidence of source selection, verification activities and examination of items or services to assure compliance with the procurement document. The effectiveness of the control of quality by contractors and subcontractors shall be assessed at intervals consistent with the importance, complexity, and quantity of the product or service.

# 7.2 IMPLEMENTATION

# 7.2.1 Initial Evaluation of Suppliers

Procurement source evaluation and selection measures shall be specified in-Quality-Procedures and Quality Instructions which shall identify the responsibility of qualified individuals for determining supplier capability. The evaluation may require integrated action involving Quality Assurance and one or more organizations (e.g., Nuclear Engineering, Nuclear Construction Services, or Nuclear Materials Management) based upon the item or service being procured. This evaluation is to ensure that the FPL contractors comply with the applicable portions of 10 CFR 50, Appendix B. Documented evidence of the evaluation, and the acceptance of the contractor's quality program and procedures shall be retained in the Quality Assurance Department files. The determination of supplier approval shall be based on such factors as prior performance, historical quality performance data, source surveys or audits, and evaluation of the supplier's Quality Assurance Program. The basis shall be consistent with the importance, complexity, and quality required for the items or services involved.

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#### 7.2.2 Verification Activities

Quality Procedures Instructions shall define the requirements for verification activities such as surveillance, inspection, or audit to assure conformance of procured items and services to identified requirements. These verification activities shall be performed in accordance with written procedures, procurement documents and their references, which specify the documentation required and the characteristic or process to be witnessed, inspected, verified, or accepted. FPL verification activities shall be accomplished by qualified personnel to verify that the supplier complies with quality requirements, and depending on the importance/complexity, shall be performed on those items where verification of procurement requirements cannot be determined upon receipt.

#### 7.2.3 Receiving Inspection

Quality-Procedures- and Quality Instructions shall delineate requirements and responsibilities for the performance of receiving inspection. This inspection shall verify that suppliers have fulfilled their contractual obligation and that the procured items meet the appropriate quality requirements. Receipt inspections shall be planned. The receipt inspection plans shall identify the characteristics to be verified and the documentation to be reviewed at receipt inspection. Receiving inspection shall include, as appropriate:

- a. Measures for verifying that the shipment is complete, properly identified, undamaged, and corresponds with the purchase order documentation;
- b. Measures for inspection of the item and review of supporting documentation (e.g., mill test reports, NDE reports) as required by the purchase documents;
- c. Measures for disposition of items to inspection instructions;
- d. Measures for identifying and controlling items including identification of inspection status prior to release from the receiving inspection area;
- e. Measures to ascertain that inspection records or Certificates of Conformance are available prior to release;.

f. Measures verifying completion of Commercial Grade Item dedication requirements.



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# 7.2.4 Supplier Furnished Records

Records required to be furnished by the supplier shall be specified in the procurement document. Certifications or documentation verifying conformance provided by the supplier shall identify the specific procurement requirements met (either by reference to the purchase order or by referenced requirements therein). Such certification shall identify any procurement requirements which have not been met and provide a description of those nonconformances dispositioned "accept as is" or "repair".

# 7.3 <u>RESPONSIBILITIES</u>

- 7.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division are responsible for:
  - 1) determining the methods of acceptance for services requested by them;
  - 2) the performance of the acceptance methods selected, when assigned to them.
- 7.3.2 The Vice President Nuclear Engineering and Licensing is responsible for:
  - 1) requesting that Nuclear Assurance perform a supplier evaluation;
  - 2) determining the methods of acceptance for items and services.
- 7.3.3 The Vice President Nuclear Assurance is responsible for:
  - 1) assuring that evaluations of suppliers are performed and the results documented in accordance with approved Quality Instructions;
  - 2) determining the methods of source verification;

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3) performing receipt inspections in accordance with approved Quality Instructions; ĉ

7.3.4 The Site Vice President is responsible for:

1) requesting that Nuclear Assurance perform a supplier evaluation;

2) examining items for shipping damage upon receipt;

3) performing receipt inspection in accordance with approved Quality Instructions;


**IDENTIFICATION AND CONTROL OF** MATERIALS, PARTS AND COMPONENTS **OP DELETION PROJECT** 

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#### 8.1 GENERAL REQUIREMENTS

Materials, parts, and components, including partially fabricated assemblies, shall be identified and controlled as required throughout fabrication, receipt, handling, storage, installation, and use of the item. The identification of the item shall be maintained by heat number, part number, serial number, FPL M&S number, or other suitable means, and shall be physically marked on the item or on records traceable to the item. The object of these controls shall be to prevent the use of non-inspected, incorrect or defective materials, parts, and components. (The FPL Material and Supplies -- M&S number is a number given to each unique type of item in inventory to distinguish it from each other type of item in inventory).

#### 8.2 IMPLEMENTATION

Quality Procedures and Quality Instructions shall establish the responsibilities and requirements for the identification, and control of materials, parts and components. The procedures and instructions used by all organizations shall assure that identification and control is maintained throughout fabrication, receipt, handling, storage, installation and use of items. This shall include welding material traceability to the point of consumption. Provisions include:

- Physical identification shall be used to the maximum extent possible. **a**. When physical identification is impractical or insufficient, items shall be physically segregated and identified by batch, lots, etc.
- When items are subdivided, their identification shall be maintained by b. transferring the identification to each of the subdivided parts or their container.
- Post-installation identification of items that cannot feasibly be c. physically marked shall be traceable by record verification.
- Items requiring identification, but whose identification was lost d. during storage, shall be segregated and documented as nonconforming and dispositioned in accordance with established procedures. Provisions-include:

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- Requirements for traceability to appropriate documentation, such as: procurement æe. documents, manufacturing documents, drawings, specifications, inspection and test records, nonconformance or deficiency reports or other Quality Assurance Records, in sufficient detail to preclude any possibility of doubt or confusion concerning the traceability of an item to the documentation, or the documentation of the item.
- bf. Controls to assure that the correct identification of an item is verified and documented prior to fabrication, receipt, handling, storage, installation and use.
- Requirements which assure that the method or location of markings are not eg. detrimental to, and do not affect the function or quality of an item; are clear, unambiguous and indelible; are in plain unobstructed view; do not provide conflicts with other requirements; are not obliterated by any surface treatment unless other means of identification are substituted; withstand normal shipping, handling and environmental effects and are able to be retained.
- Establishment of identification requirements by specifications, drawings, dh. procurement documents, instructions or procedures during initial planning.
- Requirements to ensure that dedicated Commercial Grade Items are i. identifiable to the specific component or equipment for which they are dedicated.

FPL may delegate any portion of the implementation of the identification and control program to the Architect/Engineer, Constructor, Nuclear Steam Supply System vendor or other contractors. If delegated, contracts shall require that the contractor establish an identification and control program which meets the requirements of this TQR.

#### 8.3 RESPONSIBILITIES

- 8.3.1 The Site Vice President has overall responsibility for:
  - Assuring that an identification and control system is developed and a) implemented for items to be utilized within the plant;



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- b) Receiving, controlling and ensuring the security of items;
- c) Segregating items until the required receipt inspection is performed;
- d) Assuring the placement of any necessary markings on the items as required by applicable procedures or as requested in accordance with applicable purchase orders, specifications or commercial grade dedication packages; and
- e) Incorporating applicable pre-installation and/or post-installation inspections, tests, and QC hold points (including Commercial Grade Item Dedication requirements) into applicable work control documents.
- 8.3.2 The Vice President Engineering and Licensing has overall responsibility for:
  - a) Determining and specifying end use applications for items.

# CONTROL OF SPECIAL PROCESSES **OP DELETION PROJECT**

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#### 9.1 **GENERAL REOUIREMENTS**

Measures shall be established to assure that special processes such as welding, heat treating, and nondestructive examination items, are controlled and accomplished by qualified personnel using qualified procedures and equipment in accordance with applicable codes, standards, specifications, criteria, and other special requirements.

#### 9.2 **IMPLEMENTATION**

Nuclear-Engineering or the delegated contractor organization, as appropriate, shall include eSpecial process requirements shall be included in their design outputs and changes thereto. Special processes-used-during-plant-operations-shall-be-the-responsibility-of-theplant-manager, who shall-ensure-that procedures are shall be developed, reviewed, approved and controlled, and that special process personnel and equipment are shall be qualified.

#### 9.2.1 Identification of Special Processes

Special processes are those processes which must be qualified and controlled where quality is highly dependent on close control of process variables or operator skills, and objective verification (inspection, examination or testing) of end quality is difficult.

As a further clarification, 6Special processes identified as such by applicable codes and standards shall be controlled, qualified, and implemented in accordance with those codes and standards. Examples of special processes include (but are not limited to) welding, heat treating, and nondestructive examination. Others, (i.e., e.g., flushing, protective coating, plating applications and nuclear cleaning) should be reviewed to determine if they are special processes.

#### 9.2.2 Procedure Qualification and Control

Process control procedures written by FPL organizations or their contractors shall be used and qualified as required by applicable specifications, codes, or standards.



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Where FPL assigns work to outside contractors, the contractors shall make their procedures and personnel qualifications available for review to FPL prior to the start of work. The Architect/Engineer, Nuclear Steam Supply System vendor, or other organization designated by FPL shall be responsible for the evaluation and acceptance of on-site contractor special process procedures, and shall interface with the appropriate FPL department, as necessary, to resolve review comments with the contractor. The contractor shall also be responsible for the control and approval of sub-contractor procedures.

Special process procedures shall be:

- a. sufficiently detailed for a qualified person to perform the technique and achieve the desired results;
- b. reviewed and approved prior to use to ensure the procedure complies with applicable codes, standards, and specifications, and that specified materials, equipment, and techniques are suitable for the intended application;
- c. qualified prior to or during initial use.

Special process procedures and revisions thereto which specify acceptance criteria (other than those identified in the ASME code) shall have the concurrence of the acceptance criteria by Nuclear Engineering prior to issuance and use.

# 9.2.3 Personnel Qualification and Certification

Procedures or instructions shall specify personnel qualification and certification requirements. Personnel responsible for the performance and verification of special processes shall be trained, tested, and certified as required by applicable specifications, codes and standards. Requirements for the period of certification, retesting, and

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recertification of personnel shall also be specified. Contractors shall qualify personnel and maintain records of qualified personnel in accordance with applicable codes, standards, specifications, and contract or procurement document requirements.

# 9.2.4 Control of Equipment

Equipment that must be of a specific type, range, or accuracy to provide conformance to specified requirements shall be controlled to ensure that it qualified, maintained, and calibrated in accordance with those is requirements.

# 9.2.49.2.5 Special Process Records

The Services Manager-is-responsible for-retention-of-records. The Plant General Manageris-responsible for the review of records. Records shall provide objective evidence that special processes were performed in compliance with approved procedures by qualified personnel and equipment. Records shall also be maintained for verification activities when required by procedure, code or specification. Results of nondestructive examinations shall be recorded in accordance with applicable specifications, codes and standards. For contracted work, T these records shall be retained by the vendor or supplied to FPL as required by contract or purchase order 6. If records are to be retained by the vendor, the contract or purchase order shall specify the retention period and instructions for final disposition of such records.

For-backfit-activities, the-Quality-Control-organization-is-responsible-for-the-review-ofnondestructive examination documents for acceptance. The Site Construction Services Manager-is-responsible-for-assuring-that-documents-for-special-processes-utilized-formodifications are properly collected, reviewed, accepted and transmitted for retention of records.



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Nondestructive examination documents shall be reviewed for acceptance by an individual who is certified in the applicable method.

# 9.3 <u>RESPONSIBILITIES</u>

- 9.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division involved in special process activities are responsible for:
  - 1) ensuring that special process procedures used by their department are reviewed, approved, controlled, and are qualified prior to or during initial use.
  - 2) ensuring that special process personnel in their department are qualified and certified.
  - 3) ensuring that records associated with special processes under their control are reviewed and maintained.
  - 4) performing special process inspections, examinations, and activities, when assigned to their department, as required by applicable codes, standards, criteria, or other special requirements identified.
  - 5) ensuring that work documents under their control contain adequate requirements for the identification and control of special processes.
  - 6) ensuring special process procedures and revisions which specify acceptance criteria (other than identified in the ASME code) have Nuclear Engineering concurrence of acceptance criteria prior to use.
  - 7) ensuring nondestructive examination documents are reviewed by an individual certified in the applicable method.
- 9.3.2 The Vice President Nuclear Engineering and Licensing is responsible for:
  - 1) determining (as requested) if a specific activity constitutes a special process;



- 2) identifying applicable codes, standards, specifications, criteria, and other requirements related to special processes;
- 3) preparation, qualification, issuance, and control of Visual Test (VT) and Nondestructive Examination (NDE) procedures, instructions, and technique sheets for all ASME Section XI examination activities;
- 4) direction, including technical direction to all personnel, of the welding program to meet the requirements of applicable codes and standards. This shall include the development, maintenance, and control of a welding program;
- 5) review and approval of contractor welding programs.
- 9.3.3 The Site Vice President is responsible for:
  - 1) welding activities performed at the site including issuance and control of weld documentation packages, welding material and equipment.
  - 2) maintaining a current report of qualified welders and weld operators and assigning welder symbols.
  - 3) ensuring that the Authorized Nuclear Inspector/Authorized Nuclear Inservice Inspector (ANI/ANII) is permitted access to all parts of the plant site or supplier facilities while work on an item or system is being performed that concerns the welding fabrication, modification, repair, or replacement of the item or system; including inspections, examinations, and tests.

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# 10.1 GENERAL REOUIREMENTS

A program for inspection shall be established and executed by or for FPL to verify conformance with the documented instructions, procedures and drawings for accomplishing an activity. Such Inspections shall be performed by individuals or groups other than those who performed the activity being inspected. Examinations, measurements and tests of materials or products processed shall be performed for each work operation, where necessary, to assure conformance to established requirements. If direct inspection of processed materials or products is impossible or disadvantageous, indirect control by surveillance or monitoring shall be provided. Mandatory inspection, witness, or hold points beyond which work shall not proceed without the consent of FPL or a designated representative shall be indicated in the appropriate documents.

# **10.2** IMPLEMENTATION

## 10.2.1 Inspection Program Responsibilities

For plant operations, maintenance, or modification activities, a program for on-site inspection of activities affecting quality shall be established. by the Nuclear Assurance Department. Quality Control shall-perform This program shall ensure the performance of inspections, surveillance and monitoring of plant activities including operations, maintenance or modifications as required by established plans, schedules and/or procedurally required inspection, witness or hold points. In all cases, the performing the inspection shall be independent of the group performing the work.

For-these-plant-activities, the Nuclear Assurance-Department-may delegate the establishment-and-execution of this program-to-a contractor-or other designated FPL representative, but shall retain ultimate responsibility for the program.

10.2.1--(Continued)

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For preoperational start-up and testing of plant modifications, Nuclear Division personnel may report functionally to the <u>Site-Construction-Services-Manager</u> manager responsible for the start-up and testing and establish plans, schedules and procedurally required inspection, witness or hold points. In all cases, the personnel performing the inspection shall be independent of the group performing the work.

Protection & Control Systems personnel may perform inspections of equipment within their purview during operations. Inspections shall be performed in accordance with approved, written procedures by qualified personnel.

Quality-Procedures and Quality Instructions shall be written which delineate the requirements and responsibilities for the performance of inspections.

#### 10.2.2 Inspection Plans and Schedules

Documented inspection plans may be either a separate document or an integral part of work instruction documents. The plans shall be based on design specifications, procurement documents, drawings, other specifications or previous experience, as appropriate. The frequency and timing of inspections Inspections shall be scheduled to according to the activities being conducted and to assure that sufficient time and resources are available, and to assure inspections are not inadvertently omitted or bypassed.

Inspection planning should include a review for the acceptability of sampling. If sampling is permitted, the sampling procedure shall be based on nationally recognized standard practices.

#### 10.2.3 Inspection Personnel

 Inspections shall be performed by individuals other than those who performed or directly supervised the activity being inspected. Inspection personnel shall be have current qualifications and certifications qualified and certified in accordance

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with appropriate codes, standards and/or company training programs. Qualifications and certifications shall be kept current. These qualifications and certifications shall be documented.

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b. Prior to performing inspections, inspection personnel shall have access to the drawings, procedures, specifications or other documented criteria necessary for performance of the inspection.

## 10.2.4 Inspection Procedures

a.Required inspection, surveillance or monitoring activities shall be performed and documented according to written, approved instructions or procedures.

- a. Inspection procedures, instructions or checklists shall contain the following:
  - o Identification of characteristics to be inspected;
  - Identification of the individual or groups responsible for performing the inspection;
  - o Acceptance criteria or reference to the acceptance criteria;
  - o A description of the method of inspection;
  - o Verification of completion and certification of inspection.
- b. Inspection records shall identify:
  - o Inspector or data recorder;
  - o Method or type of observations;
  - o Test or inspection results;
  - o Statement of acceptability;
  - o Date of observation;
  - o Deficiencies and nonconformances, and the action taken in connection with these deficient conditions, either by inclusion or by reference to other documents.
- c. Inspection procedures shall be reviewed by QC Nuclear Assurance personnel to determine the need for an independent inspection and the degree and method if such an inspection is required, and to assure the identification of inspection personnel and the method of documentation of inspection results.

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d. Written approved instructions shall specify surveillance or monitoring of processing methods, or testing and operation of equipment when inspection is impossible, inaccessible or not applicable.

e. Modification, repair, replacement or rework items shall be inspected in accordance with original inspection requirements or acceptable alternatives.

10.2.5 Inspection, Witness, and Hold Point Identification

Appropriate inspection, witness or hold points shall appear in process documents (e.g., construction, testing, operating and maintenance procedures). These process procedures are subject to the review of the Quality Control organization for adequacy of inspection, witness, and hold points.

Mandatory hold points shall be identified in process documents when witnessing and inspecting must be performed and signed-off by the responsible personnel before work can proceed.

FPL procurement documents shall indicate FPL witness or hold points applicable prior to during, or after the manufacture of an item or the performance of a service. A distinction shall be made between witness points and mandatory hold points.

# 10.3 <u>RESPONSIBILITIES</u>

- 10.3.1 Direct Reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division that perform inspection activities are responsible for:
  - 1. implementation of a program for inspection activities;

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- 2. ensuring that this program verifies compliance with applicable portions of Technical Specifications, SAR requirements, procurement documents, other operating license requirements and the QA Manual;
- 3. ensuring coordination with QC for incorporation of QC inspection and hold points into procedures and work documents;
- 4. ensuring that inspections are not inadvertently omitted or bypassed;
- 5. ensuring that personnel assigned to perform inspections are appropriately qualified and certified;
- 6. ensuring inspection procedures are reviewed by Nuclear Assurance personnel to determine the need for an independent inspection and the degree and method if such an inspection is required, and to ensure the identification of inspection personnel and the method of documentation of inspection results.
- 10.3.2 The Vice President Nuclear Assurance is responsible for:
  - 1. implementation of a program for inspection and surveillance activities;
  - 2. ensuring that required QC inspections are incorporated into inspection/test/maintenance procedures, design change documents, and work process control documents;
  - 3. ensuring that inspections and surveillances are correctly performed and documented;
  - 4. reviewing inspection procedures to determine the need for an independent inspection and the degree and method if such an inspection is required, and to ensure the identification of inspection personnel and the method of documentation of inspection results.

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# 11.1 GENERAL REOUIREMENTS

A test program shall be established to assure that testing required to demonstrate that structures, systems and components will perform satisfactorily in service is identified, accomplished, and documented in accordance with written procedures. The test program shall include, as appropriate, proof tests, prior to installation, preoperational tests, start-up tests, and operational tests, and retest following repairs, replacements or modifications.

# 11.2 IMPLEMENTATION

## 11.2.1 Test Program

Testing requirements shall be identified in the engineering/design documents, SAR documents, procedures, or procurement documents, as appropriate. Retest following repairs, replacements, or modifications shall be performed in accordance with the original design and test requirements or acceptable alternatives. Retest shall be performed when the original test results are invalidated. A schedule shall be provided and maintained to provide assurance that all tests are performed and properly evaluated on a timely basis.

Quality Procedures and Quality Instructions shall be written which delineate the methods and responsibilities for scheduling, controlling, accomplishing, and documenting testing.

FPL may delegate the implementation of all or any part of the test program to other organizations but shall retain ultimate responsibility for the program. The contractor shall be required to control, perform and evaluate tests in accordance with written procedures and shall be required to prepare a written test program detailing the testing required.

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11.2.2 Test Procedure Preparation and Test Performance

Testing shall be accomplished in accordance with written approved test procedures which incorporate or reference the requirements and acceptance limits in the applicable design and procurement documents. Test procedures shall be revised as necessary to assure that tests are performed in accordance with the latest approved information. The test procedure or test program documents shall include or reference the following as a minimum:

- a. Instructions for the testing method used (including precautions, limitations, and restoration of normal conditions upon test completion);
- b. Required test equipment and instrumentation;
- c. Test requirements and acceptance criteria;
- d. Hold, witness, inspection and data collection points;
- e. Test prerequisites such as: calibrated instrumentation; trained, qualified, and licensed or certified personnel; preparation, condition and completeness of item to be tested; suitable and controlled environmental conditions; defined system interfaces; initial plant conditions.
- f. Methods for documenting or recording test data and results;
- g. Test records shall identify:
  - 1) Inspector or data recorder Identification of personnel performing the testing activities;
  - 2) Method or type of observations;
  - 3) Test or inspection results (to include pertinent test data);

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4) Specific measuring and test equipment utilized for testing;

5) As found and as left condition (as applicable);

4)6) Statement of acceptability;

5) Date of observation; and

6)8) Deficiencies and nonconformances, and the action taken in connection with these deficient conditions, either by inclusion or by reference to other documents.

# 11.2.3 Evaluation of Test Results

The documented test results shall be evaluated against the predetermined acceptance criteria by a group or individual having appropriate qualifications. The acceptance status of the test shall be documented. Deficiencies noted during the evaluation shall be documented and dispositioned in accordance with TQR 15.0 and approved-Quality. Procedures or Quality Instructions.

The evaluation of the test results may be delegated to other organizations; however, FPL shall retain the responsibility for the evaluation. The evaluating organization shall be required to use qualified personnel, evaluate the data against predetermined criteria, and document the results of the evaluation and acceptance status of the test.

## 11.3 <u>RESPONSIBILITIES</u>

11.3.1 The Site Vice President is responsible for:

- 1. Assuring that plant tests are identified, scheduled, controlled, performed and documented;
- 2. Assuring that plant test procedures are reviewed and approved.

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11.3.2 The Vice President Nuclear Assurance is responsible for:

1. Assuring that test procedures specify necessary quality requirements such as witness and hold points, and adequate data sheets.

11.3.3 The Director Protection & Control Systems is responsible for:

- 1. Assuring the identification, scheduling, control, performance, and documentation of tests performed by Protection & Control Systems;
- 2. Submitting test procedures to the Plant General Manager for review;
- 3. Coordinating test schedules with the Plant General Manager.

11.3.4 The Vice President Nuclear Engineering and Licensing is responsible for:

- 1. Specifying the need for pre-installation and post-installation testing of items within his purview;
- 2. Writing test procedures as requested;
- 3. Evaluating test results as requested.

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## CONTROL OF MEASURING AND TEST EQUIPMENT **OP DELETION PROJECT**

#### **GENERAL REOUIREMENTS** 12.1

Measures shall be established to assure that tools, gages, instruments, and other measuring and testing devices used in activities affecting quality are properly controlled, calibrated, and adjusted at specified periods to maintain accuracy within necessary limits. It is the responsibility of each department maintaining calibrated instruments to provide for the calibration and control of such instruments.

#### 12.2 **IMPLEMENTATION**

12.2.1 Calibration and Control of Measuring and Test Equipment

Procedures shall be written to delineate the methods and responsibilities for the control, maintenance, and calibration of measuring and test equipment (M&TE) and installed plant instrumentation and control equipment. M&TE control procedures or calibration program documents shall contain the following:

- A complete listing of M&TE and installed plant instrumentation and а control equipment to be controlled;
- The frequency of calibration of listed M&TE and installed plant **b**. instrumentation and control equipment. The frequency may be based on calendar time or relate to usago, and be based on such factors as experience, inherent stability, instrument-purpose, or accuracy required; and shall be based on such factors as licensing commitments, regulatory requirements, experience, inherent stability, manufacturer's recommendations, purpose of use, frequency of service, or company standards. A schedule for calibration shall be established and shall indicate as a minimum the instrument, calibration frequency, and procedure to be used or the identification of the approved supplier qualified to provide calibration services.

c. A method for controlling issue and recall of portable M&TE;

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#### CONTROL OF MEASURING AND TEST EOUIPMENT **QP DELETION PROJECT**

- d. A method to uniquely identify controlled M&TE (e.g., labeling), required calibration frequency and calibration test data applicable to the M&TE and installed plant instrumentation and control equipment;
- A Method to document and maintain the status of M&TE and installed plant e. instrumentation and control equipment.

M&TE shall be calibrated in environments which will not adversely affect their accuracy. When inaccuracy due to environmental effects cannot be avoided, compensating corrections shall be determined and applied in accordance with the manufacturer technical instructions.

M&TE and reference standards shall be suitably marked so that the calibration status can be determined.

FPL may delegate the control and/or calibration of M&TE to other organizations. FPL, however, retains ultimate responsibility for control and calibration, and the contractor shall meet the requirements of this TQR or an acceptable alternative program as required by the procurement document for the contracted services.

# 12.2.2 Calibration Procedure

M&TE, reference standards, and listed installed plant instrumentation and control equipment shall be calibrated in accordance with written approved procedures. The Calibration procedures shall contain, or reference as a minimum:

- Identity of M&TE or equipment to which the procedure applies; a.
- Calibration equipment and reference standards to be used; b.
- Acceptance criteria; С.
- **d**. Sequence of operations; and special instructions-
- Special instructions (such e. as, prerequisites. power level requirements, precautions, limitations) as applicable.
- e.f. Documentation and data collection requirements;

# TOPICAL QUALITY ASSURANCE REPORT



CONTROL OF MEASURING AND TEST EQUIPMENT QP DELETION PROJECT

- frg. A requirement that equipment to be calibrated M&TE, be checked and results recorded before adjustments or repairs are made;
- g-h. Calibration frequency required.

# 12.2.3 Calibration Standards

M&TE shall be calibrated using reference standards whose calibration has a known, documented, valid relationship to nationally recognized standards or accepted values of natural physical constants. If no national standard exists, the basis for calibration shall be documented. Standards and reference standards shall have an accuracy level, range and stability which are adequate to verify that the equipment being calibrated is within tolerance and adequate for the programmatic requirements of the equipment being calibrated.

M&TE shall be calibrated against working standards having an accuracy of at least four times the required accuracy of the equipment being calibrated. When this is not practical, working standards shall have an accuracy that assures that the M&TE being calibrated will be within required accuracy tolerances and that the basis of acceptance is documented and authorized by designated responsible management.

The meaning of this paragraph may be diagrammed as follows:

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)

- "greater than" tolerance
- \_\_\_\_ PRIMARY STANDARD (if applicable)
  - "greater than" tolerance
- \_\_\_\_\_ SECONDARY STANDARD (if applicable)
  - "greater than" tolerance
- \_\_\_\_ WORKING STANDARD
  - "1:4 ratio" tolerance (except as noted above)
- \_\_\_\_\_ M&TE (installed instruments and measuring and test equipment used for
  - inspection, maintenance, etc.)

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The accuracies of M&TE and reference standards shall be chosen such that the equipment being calibrated can be calibrated and maintained within the required tolerances.

# 12.2.4 "Out of Tolerance" Control and Corrective Action

The reporting, follow-up, and correction of conditions adverse to quality found during calibration or calibration checks shall be documented. M&TE and reference standards, when found out of tolerance, shall be so identified and removed from service, tagged to indicate its status and segregated from M&TE in service, pending disposition of corrective action.. An documented investigation shall be conducted to determine the validity of previous inspection or test results gained through use of the instrument, and of the acceptability of items previously inspected or tested.

# 12.3 <u>RESPONSIBILITIES</u>

- 12.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division shall be responsibile for:
  - a) assuring that the affected plant departments establish and maintain a calibration control program;
  - b) assuring that written procedures governing calibration activities are reviewed and approved prior to use;
  - c) assuring that documentation of calibration activities are reviewed and approved.
- 12.3.2 The Director Protection & Control Systems is responsible for assuring that calibration control procedures for installed plant instrumentation and control equipment under his control are submitted to the Plant General Manager for review, and for coordination of calibration activity schedules with plant supervisors.

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## HANDLING, STORAGE, SHIPPING CLEANNESS CONTROL, AND HOUSEKEEPING QP DELETION PROJECT

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# 13.1 GENERAL REOUIREMENTS

Written instructions or procedures shall be established and implemented for the cleaning, shipping, storage, preservation, packaging, and handling of specified items. These instructions and procedures shall delineate measures which prevent degrading an item through damage or deterioration. When necessary for particular products, special protective environments such as inert gas atmosphere, specific moisture content levels, and temperature levels shall be specified and provided.

Housekeeping procedures and instructions shall require cleanness to be maintained at a level consistent with the work performed to prevent the entry of foreign material into safety related systems. Control of personnel, tools, equipment and supplies shall be established with approved procedures or instructions when the safety function of a system, component or item may be jeopardized and also while the reactor system is opened for inspection, maintenance or repair. Documented cleanness inspections shall be performed prior to system closure.

# 13.2 IMPLEMENTATION

# 13.2.1 General

Instructions or procedures shall be written to define the requirements and responsibilities for the housekeeping, cleaning, packaging, preservation, handling, storage, and shipping of equipment and material, and shall require implementation of the established design and specification requirements by personnel having appropriate qualifications. FPL may delegate any portion of the responsibility for cleaning, housekeeping, handling, storage and shipping of material and equipment, but shall retain ultimate responsibility. Where any of the functions in the sections which follow is delegated to a contractor, the contractor shall be required to adhere to the FPL requirements stated herein.

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# 13.2.2 Handling, Storage, and Shipping Procedures

Materials and equipment which are to be incorporated into a safety-related system of a nuclear power plant shall be handled, stored, and shipped in accordance with written procedures, where necessary, to implement the design document and purchase order requirements. These procedures shall assure that cleaning, handling, storing, packaging, shipping, and preserving materials, components and systems will preclude damage, loss, or deterioration by environmental conditions, such as temperature or humidity.

Site specific procedures or specific work instructions shall be developed which provide guidelines in handling heavy loads that are lifted over, or in proximity to, irradiated fuel or safe shutdown equipment/systems.

The preparation and/or implementation of these procedures may be delegated to other organizations, but FPL shall retain the ultimate responsibility for proper material handling, storage, and shipping.

13.2.4 Verification of Proper-Handling, Storage, and Shipping.

The-Quality-Assurance-Department-shall-be-responsible-for-verification-of-properhandling, storage and shipping-at vendor-facilities.

## **13.2.3** Cleanness Procedures

Procedures or work instructions for cleaning; cleanness control practices and inspections; examinations or tests to verify cleanness of items; shall be prepared and implemented.



HANDLING, STORAGE, SHIPPING CLEANNESS CONTROL, AND HOUSEKEEPING QP DELETION PROJECT

# **13.2.4** Housekeeping Procedures

Methods and techniques for controlling and maintaining housekeeping and documenting housekeeping surveillances and inspections shall be delineated in procedures or instructions.

# **13.3** Responsibilities

13.3.1 The Site Vice President has overall responsibility for ensuring that handling, storage, shipping, cleanness and housekeeping requirements are identified, and implemented.

**13.3.2** The Vice President Engineering and Licensing is responsible for:

- a. Identifying special handling and storage requirements for site fabricated items in applicable design output documents/work instructions.
- b. Identifying cleaning and cleanness verification methods in appropriate specifications, drawings or procedures.
- 13.3.3 The Vice President Nuclear Assurance is responsible for:
  - a. Verifying proper handling, storage, and shipping activities at supplier facilities.
  - b. Verification of housekeeping, handling, storage, shipping and cleanness of items through inspections, surveillances, examinations or tests at the plant site.

**TOPICAL QUALITY ASSURANCE REPORT** 



#### INSPECTION, TEST AND OPERATING STATUS QP DELETION PROJECT

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# 14.1 GENERAL REQUIREMENTS

Measures shall be established to indicate by the use of markings such as stamps, tags, labels, routing cards or other suitable means, the status of inspections and tests performed on material, equipment, or systems. These measures shall provide for the identification of items which have satisfactorily passed required inspections and tests. Measures shall also be established for indicating the operating status of structures, systems and components to prevent inadvertent operations.

# 14.2 IMPLEMENTATION

# 14.2.1 General

For-operations-activities, the Nuclear-Division-is-responsible for-establishment-and maintenance of a-A suitable system for identifying the inspection, test, and operating status of materials, equipment, systems, and components shall be established. For plant-modifications-assigned-to-Nuclear-Construction-Services-Department-or-when requested by the Plant-General-Manager, the Site-Construction Services Manager is responsible-for-establishing-a-suitable-system-for-identifying, inspecting-and-testing-formaterial, equipment, systems and components which is approved by the Plant General Manager. Each system shall be established shall be implemented and maintained in accordance with written Quality Procedures and Quality Instructions. The Architect/Engineer or Contractors shall develop and implement procedures to comply with contractual responsibilities, and applicable codes, standards, specifications, and criteria governing the status identification of procurement items being tested, installed, or fabricated. The Architect/Engineer (where applicable), suppliers and contractors shall be required to maintain a system for identifying the inspection, test and processing status of materials, parts, and components. Elements of this system require that suppliers and contractors have a controlled manufacturing and test operation in order to preclude the inadvertent bypassing of processing, inspections or test, and to provide a positive identification of component status throughout all phases of manufacturing, testing, and

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inspecting, by means of tagging, routing cards, stamping, manufacturing or test reports, labeling or other appropriate methods. -- The Vice President -- Turkey Point Plant or Str Lucio-Plant-and-the Quality-Accurance-Department-shall Methods to verify adequacy of the controls shall be established and implemented, as appropriate. for their siter

14.2.2 Status Identification and Control

Quality Procedures and Quality Instructions shall describe control of the application and removal of markings such as stamps, tags, labels, routing cards, and other suitable means to indicate the status of non-operational, nonconforming, or malfunctioning nuclear safety related structures, systems and components to prevent inadvertent operation, and to prevent omission of inspections, tests, or other critical operations. These procedures and instructions shall delineate the requirements, methods and responsibilities for indicating the status of the affected items. These procedures will clearly delineate the individuals or groups responsible for application and removal of status indicators. These procedures shall require independent verifications, where appropriate, to ensure that necessary measures have been implemented.

#### 14.3 RESPONSIBILITES

- 14.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division shall be responsible for coordinating activities affecting the inspection, test and operating status of material, equipment, systems and components with the appropriate plant organization.
- 14.3.2 The Site Vice President is responsible for the establishment, maintenance, and implementation of a suitable system for identifying, inspecting, testing, and providing operating status of material, equipment, systems and components in accordance with written and approved procedures and instructions and the approval of other programs utilized on site which provide for inspection, test and operating status.

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14.3.3 The Vice President Nuclear Assurance is responsible for assuring that requirements are implemented per written instructions and procedures.

## TOPICAL QUALITY ASSURANCE REPORT



#### NONCONFORMING MATERIALS, PARTS OR COMPONENTS QP DELETION PROJECT

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## 15.1 GENERAL REOUIREMENTS

Measures shall be established to control materials, parts, or components which do not conform to requirements in order to prevent their inadvertent use or installation. These measures shall include, as appropriate, procedures for identification, documentation, segregation, disposition and notification to affected organizations. Nonconforming items shall be reviewed and accepted, rejected, repaired or reworked in accordance with documented procedures.

## 15.2 IMPLEMENTATION

## 15.2.1 Program

Quality Procedures and Quality Instructions shall define the responsibilities and methods for identifying, documenting, segregating and dispositioning nonconforming items. For procedure review requirements, see TQR 2.0 and TQR 5.0. Each department shall be responsible for the identification, control and disposition of nonconformances within the scope of their departmental responsibilities. Throughout plant life, FPL may delegate any portion of the identification and control of nonconforming items and services to an Architect/Engineer (A/E), constructor, NSSS vendor or other contractors. In any case, FPL retains the responsibility for assuring that requirements are met, and shall assure that the contractor's actions conform to requirements set by FPL.

# 15.2.2 Documenting and Controlling Nonconformances

All nonconformances in safety related items shall be documented and reported for corrective action. Measures shall be delineated in Quality Procedures and Quality Instructions which control further processing, installation, or operation of nonconforming items. These measures shall include:

a. Physical identification of the item as nonconforming.

b. Segregation of nonconforming items until properly dispositioned.



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Where physical segregation is not practical, suitable tags, marking or documentation shall be used to assure control.

The control of, and the documentation generated by the identification, disposition, correction, and verification of nonconformances may be transferred between processing methods. Adequate controls shall be established to assure traceability between processing methods and the identified nonconforming item and to prevent inadvertent cancellation of the corrective action implementing document.

## 15.2.3 Documentation

Documentation of the nonconforming item shall: identify the item; describe the nonconformance; show disposition of the nonconformance and inspection requirements; and include the signature of the person approving the disposition.

## 15.2.4 Evaluation and Disposition

Nuclear Engineering, or the other delegated contractor organizations, as specified by procedure, shall evaluate nonconformances and disposition them based on the results of the evaluations. Nonconforming conditions which cannot be made acceptable utilizing existing design documents shall be evaluated by Nuclear Engineering for disposition. These evaluations and dispositions shall be reviewed, approved and documented in accordance with procedures.

An evaluation to determine the disposition of nonconforming items shall be performed. The evaluation shall determine whether an item is to be accepted as-is, repaired, reworked or rejected. A technical evaluation shall be performed when an item is accepted as-is or is repaired to an acceptable condition. Records of the disposition of these items shall be made part of the nonconformance report. This evaluation shall assure that the final condition does not adversely effect safety, operability or maintainability of the item, or of the component or system in which it is installed.



NONCONFORMING MATERIALS, PARTS OR COMPONENTS QP DELETION PROJECT

The A/E, or other contractors on-site, shall be required to inform FPL as specified in procurement documents prior to use or installation of a nonconforming item. The nature and extent of a nonconformance and the reason for proposing its use or installation shall be justified. Nonconforming items dispositioned "accept as-is", or repaired to an acceptable condition, shall be so identified. Nonconformance reports for those items shall be made part of the item records and forwarded with the material to FPL.

The determination of the need and the advisability of releasing nonconforming materials or items, is made by the shall be initiated by the Site Vice President, and approved by Nuclear Engineering Department. The following factors may be appropriate considerations in making this determination:

- a. Effect on the orderly progress of work if material or items are released;
- b. Safety of personnel;
- c. Suitability of material or items in "as-is" condition, i.e., probability of eventual satisfactory resolution of the nonconformance without repair, rework, or replacement;
- d. Accessibility of material or items after release;
- e. Cost of removal and repair of replacement should material or items eventually have to be removed, repaired, or replaced;
- f. Impact on plant safety.

Items shall be reworked or repaired in accordance with documented procedures and shall be verified by reinspecting the item as originally inspected or by a documented method which is at least equal to the original inspection method.

Nuclear Assurance personnel shall periodically review nNonconformance reports shall be periodically reviewed to identify quality trends. The results of these analyses shall be reviewed with appropriate members of upper level management.

# 15.3 <u>RESPONSIBILITIES</u>

- 15.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division are responsible for:
  - a) the generation of instructions/procedures to implement requirements for the identification, control, disposition, and verification of nonconformances within their purview;
  - b) identifying and documenting nonconforming items within the scope of their departmental responsibilities;
  - c) submitting nonconformances requiring design evaluations to the appropriate engineering organizations;
  - d) tracking and control of open nonconforming items within the scope of their departmental responsibilities;
  - e) dispositioning and verifying the resolution of nonconforming items within the scope of their departmental responsibilities;
  - f) periodically assessing quality trends related to nonconformances.

15.3.2 The Site Vice President is responsible for:

a) supplier notification and follow-up of nonconformances requiring supplier corrective actions.

15.3.3 The Vice President Nuclear Assurance is responsible for:

a) periodically assessing quality trends related to nonconformances and reviewing the results of these assessments with appropriate members of upper level management.


NONCONFORMING MATERIALS, PARTS OR COMPONENTS QP DELETION PROJECT

15.3.4 The Vice President Nuclear Engineering and Licensing is responsible for:

- a) the review, evaluation, and disposition of nonconformances submitted by other departments;
- b) approval of release of nonconforming items
- c) supplier notification and follow-up of nonconformances requiring supplier corrective actions.

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# 16.1 GENERAL REQUIREMENTS

Documented measures shall be used to assure that conditions adverse to quality such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances, are promptly identified and corrected as soon as practicable. In the case of significant conditions adverse to quality, the cause of the condition shall be determined and action taken to preclude repetition. The identification of significant conditions adverse to quality, the condition, and the corrective action taken shall be documented and reported to appropriate levels of management.

# 16.2 IMPLEMENTATION

# 16.2.1 Corrective Action and Follow-Up

Quality-Procedures and Quality Instructions shall define responsibilities and methods for identifying and correcting conditions adverse to quality. When an adverse condition is detected, a determination shall be made by plant supervision or Nuclear Assurance personnel as to whether immediate or routine corrective action is required.

a. "Immediate Corrective Action" applies to conditions which pose a threat to plant safety or to the health and safety of the public, which could result in major equipment and material damage, or could, if not corrected, produce defects of significantly greater consequences than those immediately resulting from the condition. "Immediate Corrective Action" is accomplished through stopwork requests/orders to appropriate levels of management, requiring that work be stopped, the plant be shut down or other appropriate actions be taken.

Specific personnel having stop work authority include the Plant General Manager, Site Quality Manager and Plant Vice President.

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b. "Routine Corrective Action" applies to conditions which do not require immediate corrective action. Routine corrective action is assured through the distribution and disposition associated with inspection reports, surveillance reports, nonconformance reports, and audit reports; and the investigation analysis and action associated with reportable conditions events.

Interdepartmental corrective action shall be requested by use of written correspondence. Audit reports, nonconformance reports, interoffice letters, and other documents may be used for this purpose.

Follow-up to verify implementation of corrective action and close-out of corrective action documentation is accomplished by the QA-or-QC organization responsible for verifying the corrective action. The Quality Nuclear Assurance Department shall track, follow-up, and closeout open items identified by QA Nuclear Assurance Department audits and vendor surveillances. The respective department or plant shall track those items charged to its operating license by the NRC. Each department shall be responsible for follow-up and close-out of corrective action resulting from their departmental inspections, tests, or operations.

If corrective action is inadequate or not timely, the follow-up organization shall request corrective action from management, as delineated in procedures. The President Nuclear Division is the final authority in the event that agreement is not reached at lower levels regarding stop work requests or other corrective action.

Where corrective action is required of contractor personnel, FPL shall define in procedures and contracts the corrective action interface between FPL and the contractor. FPL shall require the A/E, NSSS vendor, constructor and other suppliers of safety related materials and services to have a documented corrective action system.

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## 16.2.2 Recurrence Control

It is the responsibility of the organization which identifies the significant condition adverse to quality to verify that corrective action description not only corrects the immediate condition, but also precludes the condition from recurring. The organization(s) that provide(s) the corrective action disposition and implementation is responsible to assure that the corrective action taken not only corrects the immediate condition, but also precludes recurrence.

16.2.3 Incidents and Reportable Events Reporting

Operating reportable events and reports of incidents shall be investigated, documented as to cause and corrective action, and reported to the NRC in accordance with the applicable plant Technical Specifications and Federal Regulations. Reportable events and reports of incidents that are safety related or that result in damage shall be forwarded to the Company Nuclear Review Board (CNRB) for review. Conditions adverse to quality are reported to operating plant management through: distribution of QA audit reports, QC inspection reports, corrective action requests, and the investigation and reporting of reportable events in accordance with plant Technical Specifications.

### 16.3 Responsibilities

- 16.3.1 The President Nuclear Division is the final authority in the event agreement relating to stop work requests or other proposed corrective action is not reached at lower management levels.
- 16.3.2 Direct reports of the President Nuclear Division and Department Heads of organizations supporting the Nuclear Division are responsible for:
  - a. Assuring that timely corrective action within their respective organization.

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- b. Follow-up and assuring completion of corrective action resulting from their respective department's audits, inspections, surveillances, tests, or operations.
- c. Reviewing and investigating audit findings to determine and schedule appropriate corrective action and responding as requested in the audit report.
- 16.3.3 The Vice President Nuclear Assurance has the responsibility and authority to recommend that work be stopped or appropriate corrective action taken as a result of QA findings during department audits and reviews or QC activities.
- 16.3.4 All personnel detecting conditions adverse to quality or significant conditions adverse to quality are responsible for reporting such conditions to the appropriate authority.

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QUALITY ASSURANCE RECORDS

# 17.1 <u>GENERAL REOUIREMENTS</u>

Sufficient records shall be maintained to furnish documented evidence of the quality of safety related structures, systems, and components, and of activities affecting their quality. The records shall include, as appropriate, data such as qualifications of personnel, procedures, and equipment; and other documentation such as inspection or test acceptance criteria, and the action taken in connection with deficiencies noted during inspection.

The records required to furnish documentary evidence of quality, herein called quality assurance records, shall be identifiable and retrievable. These records shall be maintained in facilities that provide a suitable environment to minimize deterioration or damage and to prevent loss.

The requirements and responsibilities for quality assurance record control, transmittal, retention, and maintenance shall be established and documented. These record requirements shall be consistent with applicable design, manufacturing, and installation codes and standards, and with procurement document requirements.

# 17.2 IMPLEMENTATION

# 17.2.1 Records Identification

Quality Procedures Instructions shall define the quality assurance records necessary to furnish documentary evidence of the quality of safety related structures, systems, and components; and activities affecting quality. These records shall include plant operating logs; results of design reviews, inspections, tests, audits, and material analyses; qualification of personnel, procedures, and equipment; design records such as drawings and specifications; procurement documents; calibration records; and nonconformance or corrective action reports.

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QUALITY ASSURANCE RECORDS

Quality assurance records shall be classified as lifetime or nonpermanent as required by the NRC facility operating license, the NRC construction permit, applicable parts of 10CFR, the FSAR, or other NRC commitments.

#### 17.2.2 ---- Responsibilities

Responsibilities-shall-be-established-and-documented-for-the-control,-transfer, maintenance, and-retention-of-quality-assurance-records. Quality Procedures-shall provide-guidance for determining the-retention-requirements of quality-assurance records. Each-organization-responsible-for-the-conduct-of-a quality-activity shall-be responsible for the maintenance of the subsequent-quality-assurance-records-unless retention-responsibilities-have-been-transferred-by-a-prearranged-agreement. In any case, the organization-initiating the quality-assurance records-shall be responsible for their validity and approval.

17.2.2

17.2.3 Retrieval

Quality Procedures shall require that qQuality assurance records submitted for retention shall be legible, completely filled out, and adequately identifiable and retrievable for each item. The records shall be filed in a the storage area or facility using a documented system to provide retrievability. Quality Procedures Instructions shall additionally require control of corrections and supplements issued for quality assurance records that are previously approved and filed, and that documented methods for control and accountability of records removed from the storage area be instituted.

### 17.2.43 Storage

Specified in the Quality Procedures are the cConstruction features and location requirements for record storage facilities shall be established to which assure that quality assurance records are protected from possible destruction by causes such as fire, flooding, theft, tornadoes, insects, rodents, and from possible deterioration by a



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combination of extreme variations in temperature and humidity. Specific instructions regarding the storage area area shall be given for special processed records and for temporary storage facilities.

A QA Record Storage Evaluation Team (QARSET) shall be established to determine if the methods utilized to store and protect QA records are adequate. The QARSET shall consist of the following: the Quality Manager - Juno Beach, the Loss Prevention Engineer, and the Nuclear Records Official. The QARSET shall maintain records of evaluations and establish schedules to assure that reevaluations are performed every two (2) years. The QARSET shall evaluate the status of existing facilities and the adequacy of additional records facilities prior to the construction of a new facility or the conversion of existing structures. The requirements of the Topical Quality Assurance Report, Appendix C shall be utilized in the evaluation of potential permanent and temporary record storage facilities.

## 17.3 <u>RESPONSIBILITIES</u>

- 17.3.1 Direct reports of the President, Nuclear Division, and Department Heads of organizations supporting the Nuclear Division that generate quality assurance records are responsible for:
  - a) the technical content and accuracy of the records they generate;
  - b) transmitting records to the appropriate storage facility or requesting approved storage locations from QARSET;
  - c) establishing a list of quality assurance records generated by the organization and their retention times and assuring that these quality assurance records are identified in the appropriate quality assurance record index;

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|        | d) th                        | e storage and retrieval of quality assurance records                                                                                                                                     | prior to                             |
|        | tra                          | ansmittal to permanent record storage facilities;                                                                                                                                        |                                      |
|        | e) pe<br>sy:                 | rforming periodic surveys to ensure that their reco<br>stem is adequate.                                                                                                                 | rd control                           |
| 17.3.2 | The Nu                       | clear Records Official is responsible for:                                                                                                                                               |                                      |
|        | a) en<br>ma                  | suring the quality assurance records program activianaged in accordance with applicable laws and regu                                                                                    | ities are<br>ılations;               |
|        | b) de                        | veloping, approving, and maintaining record reten                                                                                                                                        | tion schedules;                      |
|        | c) est                       | ablishing parameters for records indexing;                                                                                                                                               | •                                    |
|        | d) loc                       | ating acceptable record storage areas when request                                                                                                                                       | ed;                                  |
|        | e) sto<br>by                 | rage, retrieval, and control of records/documents a other departments;                                                                                                                   | as requested                         |
|        | f) lea<br>sto<br>esta<br>eve | ding the evaluation of specially designated QARSE<br>rage facilities, maintaining records of this evaluati<br>ablishing schedules to assure that re-evaluations ar<br>ery two (2) years. | T approved<br>on, and<br>e performed |
| 17.3.3 | The Site                     | Vice President is responsible for:                                                                                                                                                       |                                      |
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| 17.3.4 | The Man            | ager Administrative Services is resp                                   | oonsible for:            |              |
|        |                    |                                                                        |                          |              |
|        | a) stor:<br>requ   | age, retrieval, and control of records<br>lested by other departments. | and documents as         |              |
|        | ,-<br>             |                                                                        |                          |              |
| 17.3.5 | The Qual responsib | ity Assurance Record Storage Evaluation<br>le for:                     | ation Team (QARSET) i    | İS           |
|        |                    |                                                                        |                          |              |
| a      | a) evalu<br>assu   | uating the acceptability of storage loc<br>rance records;              | cations for quality      |              |
|        | <b>b</b> )         |                                                                        |                          |              |
| ۰<br>- | two                | ring that evaluations of storage locat years.                          | tions are performed ever | У            |
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# 18.1 GENERAL REOUIREMENTS

A comprehensive system of planned and periodic audits shall be carried out to verify compliance with all aspects of the quality assurance program and to determine the effectiveness of the program. The audits shall be performed in accordance with the written procedures or checklists by appropriately trained personnel not having direct responsibilities in the areas being audited. Audit results shall be documented and reviewed by management having responsibility in the area audited. Follow-up action, including reaudit of deficient areas, shall be taken, where necessary.

# 18.2 IMPLEMENTATION

A comprehensive program of audits is carried out by the Quality Assurance Department during the design, procurement, construction, and operations phase of nuclear power plants. These audits are performed to verify that all safety related activities associated with nuclear power plants are carried out in accordance with the requirements of the FPL QA Program, and that the implementation is effective.

## 18.2.1 Personnel

Quality Procedures Instructions shall provide instructions for the training of QA Department personnel who perform audit activities, to assure that they are adequately indoctrinated and trained, and that they are qualified to carry out these activities. Quality Procedures Instructions provide for personnel qualified as Lead Auditors to be formally certified by Quality Assurance Department management. Certification shall be based on education, experience, training and other specified criteria.

### 18.2.2 Planning and Scheduling

Quality Procedures-and-Quality Instructions Instructions provide requirements for written audit plans and schedules. The audits are planned and scheduled on the basis of the following:

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AUDITS

a. Activities shall be audited as early in their life as practicable. Auditing shall be initiated early enough to assure effective quality assurance during the design, procurement and contracting activities.

- b. The system of audits devised to verify compliance with safety and quality related aspects of the nuclear plants is described in each unit's technical specifications. Audits of selected aspects of operational phase activities are performed with a frequency commensurate with safety significance. As a minimun, unless otherwise specified by technical specifications, the Code of Federal Regulations or other licensing commitments, these audits are performed at a biennial (2-year) frequency. The audit system is reviewed periodically and revised as necessary to assure coverage commensurate with current and planned activities.
- c. An annual evaluation of suppliers' quality performance history shall be performed to determine reaudit requirements. Reaudit requirements for suppliers shall be based on the supplier's quality performance and the complexity and criticality of the equipment or service being procured. A facility evaluation (audit) will be performed at least every three years and shall be conducted in accordance with Quality Procedures and Quality Instructions Instructions for supplier evaluations.
- d. Audits shall be regularly scheduled for on-going activities.
- e. Regularly scheduled audits shall be supplemented, as required to cover unforeseen events or changes in requirements.

The scope of audit activities shall include, as a minimum:

- a. The determination of site features which affect plant safety (e.g., core sampling, site preparation, and meteorology).
- b. The preparation, review, approval, and control of the SAR, designs, specifications, procurement documents, instructions, procedures, and drawings.

|        |                                                                                     | ······                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ۹.<br>                                                                       |  |  |  |  |
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|        |                                                                                     | TOPICAL QUALITY ASSURANCE REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TQR 18.0                                                                     |  |  |  |  |
|        |                                                                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rev. 8 Draft                                                                 |  |  |  |  |
| H C    |                                                                                     | AUDITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date 11/10/93                                                                |  |  |  |  |
|        |                                                                                     | QP DELETION PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 of 5                                                                       |  |  |  |  |
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|        | c. Evaluat                                                                          | tion of bids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |  |  |  |  |
| •      | d. Indoctrination and training programs.                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |  |  |  |  |
| •      | e. Receivi                                                                          | e. Receiving and plant inspections.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |  |  |  |  |
|        | f. Operatio                                                                         | on, maintenance/repair and modification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X                                                                            |  |  |  |  |
|        | g. The imp                                                                          | g. The implementation of operating and test procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |  |  |  |  |
|        | h. All criteria in Appendix B to 10 CFR Part 50.                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |  |  |  |  |
|        | i. Validity of Certificates of Conformance.                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |  |  |  |  |
|        | External aud<br>Architect/Eng<br>materials and<br>Procurement of<br>audits on their | lits shall be performed by the Quality Assurance<br>ineers, NSSS vendors, constructors, and other suppliers<br>I services to evaluate their QA programs, procedures<br>documents shall require that FPL suppliers and contractors<br>sub-tier suppliers and contractors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Department on<br>of safety related<br>s and activities.<br>s in turn perform |  |  |  |  |
| 18.2.3 | Conduct of Au                                                                       | udits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |  |  |  |  |
|        | Quality <del>Procee</del><br>the conduct of                                         | <del>lures and Quality Instructions</del> Instructions shall delineate a a state of a | requirements for                                                             |  |  |  |  |
| •      | a. Audits b                                                                         | e conducted by trained and qualified personnel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |  |  |  |  |
|        | b. Personne                                                                         | el conducting audits shall not have direct responsibility in th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | e area audited.                                                              |  |  |  |  |
|        | c. Checklis                                                                         | sts or <del>procedures</del> instructions shall be used to ensure depts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | th and continuity                                                            |  |  |  |  |

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- d. Objective evidence shall be examined for compliance with quality assurance program requirements. This shall include examination of procedures instructions and activities to assure that documented objective evidence is meaningful and in compliance with the overall Quality Assurance Program.
- e. Audits shall include evaluation of work areas, activities, processes and items; and the review of documents and records.
- 18.2.4 Reporting of Audit Findings

Audit findings shall be documented in written reports. Audit reports shall be distributed to the responsible management of the audited FPL organization within thirty calendar days after completion of the audit.

### 18.2.5 Follow-up

Responsible management of the audited organization shall take action to correct the deficiencies identified in the audit report and provide a written response within thirty calendar days after receipt of the report. This response shall include action taken and/or planned to correct deficiencies and to prevent recurrence of the deficiencies, and commitment dates for actions not yet complete. The mechanism for evaluation and follow-up of corrective action is described in TQR 16.0. The status of correction of deficiencies shall be followed until the corrective actions have been accomplished and verified.

# 18.2.6 Reports to Management

The Quality Assurance Program status reports are periodically prepared by the QA. Department periodically reports on the status of the Quality Program and routed to the members of the Company Nuclear Review Board (CNRB) for their review. This status report summarizes the results of QA Department audit activities for the period, keeps all CNRB members apprised of current conditions and program effectiveness, and when necessary, directs management attention to significant trends and problems.

|                                                                                                     | TOPICAL QUALITY ASSURANCE REPORT                                                                                                                                                                                                          | TQR 18.0                                                      |
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| <ul> <li>18.3.1 Direct rep<br/>of organiz</li> <li>1. Takin</li> <li>2. Provi<br/>receip</li> </ul> | orts to the President, Nuclear Division, and Dep<br>ations supporting the nuclear division shall be res<br>g action to correct deficiencies identified in audit<br>ding a written response within thirty (30) cal-<br>t the audit report. | oartment Heads<br>sponsible for:<br>reports.<br>endar days of |
| 18.3.2 The Vice 1                                                                                   | resident Nuclear Assurance is responsible for the                                                                                                                                                                                         | e following:                                                  |
| 1. Sched                                                                                            | uling audits on a regular basis.                                                                                                                                                                                                          | ,                                                             |
| 2. Select                                                                                           | ng the audit team and the <del>Principal</del> Lead Audite                                                                                                                                                                                | or.                                                           |
| 3. Revie<br>forma                                                                                   | wing each audit report for accuracy, comple<br>t and distribution.                                                                                                                                                                        | teness, proper                                                |
| 4. Desig<br>writin                                                                                  | nating a qualified replacement <del>principal</del> Lead<br>g) if the audit team leader transfers from the                                                                                                                                | d Auditor (in                                                 |

- 5. The qualification of Principal Lead Auditors.
- 18.3.3 The Chairman, Company Nuclear Review Board (CNRB) is responsible for review and concurrence of Annual Audit Program Plans, review of individual audit scopes and involvement in the audit program for internal audits as defined by CNRB procedures instructions.

group or is otherwise unable to continue his/her the assigned audit.

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| ST. LUCIE PLANT, UNITS 1 & 2<br>SITE ORGANIZATION | 11/13/93           |  |
| FIGURE 1-3<br>APPENDIX A                          | PAGE 1 OF 1        |  |

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Indicates position with accountabilities in Technical Specifications. Where multiple tiles occur, the first position isted shall act in the capacity of the other isted tiles.



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|          |        | in i            | ts entirety. |                  |               |      |     |        |       |
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| 2719     |        | *               |              |                  |               |      |     |        | •     |

| TOPICAL QUALITY ASSURANCE REPORT | APPENDIX E |
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#### LIST OF CORPORATE QUALITY ASSURANCE PROCEDURES

| 2    | APPENDIZ | I E |
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| Page | 1 of     | 9   |

#### **OP\_NUMBER/TITLE**

#### SECTION DESCRIPTION

1.1 CANCELLED

2.1 CANCELLED (Terms and Definitions contained in the OA-Manual Glossary)

#### 2.2 CANCELLED

2.3 QUALITY ASSURANCE PROGRAM REVIEW

<del>2.4</del>

2.5

PREPARATION AND REVISION OF QUALITY INSTRUCTIONS

AND DEPARTMENTAL TRAINING

Provides instructions for the revision of the Florida Power & Light Company Topical Quality Assurance Report (FPL TQAR). Describes the instructions and methods-used for establishing, preparing, issuing, revising and controlling Quality Procedures employed in supporting quality requirements.

Provides the responsibilities, guidelines and methods used—for—developing\_and\_revising\_Quality Instructions, based-upon QP's, that-involve quality activities within a department or organization and are unique to that activity.

-Describes the requirements for the indoctrination and training—of—personnel—who ferform,—or—are responsible for activities that affect quality.

2.6 CANCELLED

2.7

Form 2719 (Non - Stocked) Rev.1/89

IDENTIFICATION OF SAFETY RELATED STRUCTURES, SYSTEMS, AND COMPONENTS-

OUALITY ASSURANCE INDOCTRINATION-

2.8 CLEANLINESS-CONTROL-METHODS Describes the development and approval of documents identifying safety related and safety related design-feature structures, systems and components.

Provides-criteria-for-securing good-housekeeping. Assigns-responsibilities-for-assuring-that-the cleanliness-of-material,-systems-and-structures-is maintained.

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|                                                                                             |                                                          |                                                                                             |                                                                                                  |
| OP-NUMBER/                                                                                  | THE                                                      | SECTION-DESCRIPT                                                                            | ION                                                                                              |
| 2.9<br>QUALIFICATIO<br>INSPECTION, 4<br>POWER-SUPPL                                         | ON OF QA AUDIT, QC<br>CONSTRUCTION &<br>X TEST PERSONNEL |                                                                                             | alifications that are-<br>petent QC inspectors,<br>and power supply-<br>to respective functions. |
| <del>2.10</del><br>Housekeepid<br>Plants                                                    | IG-FOR-OPERATING                                         | Describes the responsibiliti<br>housekeeping at operating t                                 | es and controls for-<br>nuclear power-plants.                                                    |
| 2.11<br>CANCELLED                                                                           |                                                          | `                                                                                           |                                                                                                  |
| 2.12<br>FPL QA PROGR<br>FOR QUALITY<br>AND SERVICE:                                         | AM APPLICABILITY<br>RELATED ITEMS                        |                                                                                             | of the Quality Assurance -<br>d Items and Services.                                              |
| PROCESSING (                                                                                | OF NRC CORRESPONDENCE                                    | Describes the system for NRC-initiated action reques                                        | <del>-providing-responses-to</del><br><del>SIS-</del>                                            |
| 2.14<br>IMPLEMENTAT<br>ASME XI                                                              | <del>FION OF -</del>                                     | Describes the program and<br>controlling activities defined                                 | <del>responsibilities for-</del><br>d-by-ASME Section XI.                                        |
| 2.15<br>CONTROL OF (                                                                        | MADUTED SOFTWARE                                         | ,<br>Spacifies basic requirem                                                               | in the control of the                                                                            |
|                                                                                             |                                                          | lifecycle-of-computer-softw<br>alone, and PC-computers.                                     | are-on-mainframe, stand-                                                                         |
| <del>2.17</del><br>ENVIRONMEN<br>OF ELECTRICA                                               | FAL QUALIFICATION (EQ)<br>L EQUIPMENT                    | Delineates the responsibiliti<br>maintaining_the_environ<br>nuclear plant components.       | es and requirements for<br>mental-qualifications of                                              |
| 3.1<br>SANCELLED                                                                            |                                                          |                                                                                             |                                                                                                  |
| B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B | ON AND CONTROL OF                                        | - Describes-measures-employ<br>controlling-design-interface<br>interfaces, and modification | red for identifying and<br>s, changes in design<br>as that affect documents.                     |
| Form 2719 (N                                                                                |                                                          |                                                                                             |                                                                                                  |

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| OP NUMBER/TITLE                                                         |                                 | <u>SECTION DESCRIPTION</u>                                                                                                                              | <del>DN</del>                                                                                   |
| <del>3.4</del><br><del>PLANT CHANGES AND I</del><br>FOR OPERATING PLANI | MODIFICATIONS                   |                                                                                                                                                         | trolling design changes<br>-nuclear-power-plants-                                               |
| 3.5                                                                     |                                 | · ·                                                                                                                                                     | F                                                                                               |
| DESIGN CONTROL AT T<br>CONSTRUCTION SITE                                | <del>[][]</del>                 | Defines the responsibilities a<br>for-the initiation, review, c<br>disposition of field initiat<br>miscellaneous-design doc<br>sketches and isometrics. | nd—methods-employed<br>waluation, approval-and<br>ed-design-changes-and<br>uments—such—as—field |
| <del>3.6</del><br>CONTROL OF FPL ORIGI<br>DESIGN                        | NATED                           | - Covers the preparation, revie<br>design input docume<br>specifications, and design<br>related design work originate                                   | <del>ow, and approval of</del><br>nts,design                                                    |
| 3.7<br>EVALUATION AND CON<br>CONTRACTOR DESIGN I<br>FUEL AND RELATED SY | TROL OF<br>FOR NUCLEAR<br>STEMS | Describes the evaluation and<br>designs for-fuel related comp<br>                                                                                       | -control-of-contractor<br>conents and analysis                                                  |
| 4 <del>.1</del><br>CANCELLED                                            |                                 |                                                                                                                                                         |                                                                                                 |
| 4.2<br>CANCELLED                                                        | ,                               | • ,                                                                                                                                                     | · ·                                                                                             |
| 4 <del>.3</del><br><del>CANCELLED</del>                                 |                                 |                                                                                                                                                         | x                                                                                               |
| 4.4<br>CANCELLED                                                        |                                 |                                                                                                                                                         |                                                                                                 |
| 4 <del>.5</del><br>CANCELLED                                            |                                 | ,                                                                                                                                                       |                                                                                                 |
| 4 <del>.6</del><br><del>PROCUREMENT CONTRO</del>                        | <del>OF</del>                   | Delineates the sequence of a<br>review, -approval,andc<br>documents.                                                                                    | ctions in the preparation,<br>ontrol of procurement                                             |
|                                                                         |                                 |                                                                                                                                                         |                                                                                                 |

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| FPL                                                                                                                                                                                                         |                                                         | ·                                                                                                                                                                                                                                                                                                                    | Page 4 of 9                                                                                                                                                    |
|                                                                                                                                                                                                             |                                                         |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                |
|                                                                                                                                                                                                             | <u>Ľ</u>                                                | <u>SECTION DESCRIPT</u>                                                                                                                                                                                                                                                                                              |                                                                                                                                                                |
| 4.7<br>SPECIAL QUALITY /<br>DOCUMENTS                                                                                                                                                                       | ASSURANCE                                               | Describes the process for-<br>issuance, and control of-<br>Documents (SQADS).                                                                                                                                                                                                                                        | development, revision,<br>-Special-Quality-Assuranc                                                                                                            |
| 5.1<br>OPERATING PLANT                                                                                                                                                                                      | PROCEDURES                                              | Describes-measures-which<br>and procedures used-<br>identified, prepared, review<br>revised in accordance-<br>requirements.                                                                                                                                                                                          | ch-ensure-that-instruction<br>-in—operating-plants-a<br>wed, approved,-issued-ar<br>with-regulatory-and-FP                                                     |
| 5.2<br>CONSTRUCTION SE                                                                                                                                                                                      | RVICES                                                  | Describes the generation,<br>Construction-Services pro                                                                                                                                                                                                                                                               | review and control of -<br>cedures.                                                                                                                            |
| CONTROL OF CONST                                                                                                                                                                                            | FRUCTION PROJECT                                        | Defines-responsibilities-an                                                                                                                                                                                                                                                                                          | nd-methods for the control                                                                                                                                     |
| CONTROL OF CONST<br>CONTRACTOR DRAY<br>SPECIFICATIONS AN                                                                                                                                                    | FRUCTION PROJECT-<br>VINGS,<br>VD PROCEDURES            | Defines responsibilities an<br>and issue of contractor dra<br>procedures to be used du<br>of nuclear power plants.                                                                                                                                                                                                   | nd methods for the control<br>awings, specifications and<br>ring the construction phac                                                                         |
| CONTROL OF CONS<br>CONTRACTOR DRAY<br>SPECIFICATIONS AN<br>6.2<br>CONTROL OF DOCU<br>ISSUED BY FPL                                                                                                          | FRUCTION PROJECT-<br>WINGS,<br>VD PROCEDURES-<br>MENTS  | Defines responsibilities and<br>and issue of contractor dra<br>procedures to be used du<br>of nuclear power-plants.<br>                                                                                                                                                                                              | nd methods for the control<br>awings, specifications and<br>ring the construction phat<br>for controlling documents<br>coribe activities affecting the<br>ems. |
| CONTROL OF CONS<br>CONTRACTOR DRAY<br>SPECIFICATIONS AN<br>6.2<br>CONTROL OF DOCU<br>ISSUED BY FPL<br>6.3<br>CANCELLED                                                                                      | FRUCTION PROJECT-<br>WINGS,<br>ND PROCEDURES            | <ul> <li>Defines responsibilities and and issue of contractor draprocedures to be used du of nuclear power plants.</li> <li>Instructions are provided tissued by FPL which pres quality of safety related ited.</li> </ul>                                                                                           | nd methods for the control<br>awings, specifications and<br>ring the construction phat<br>for controlling documents<br>cribe activities affecting the<br>ems.  |
| CONTROL OF CONS<br>CONTRACTOR DRAY<br>SPECIFICATIONS AN<br>6.2<br>CONTROL OF DOCU<br>ISSUED BY FPL<br>6.3<br>CANCELLED<br>6.4<br>CANCELLED                                                                  | FRUCTION PROJECT-<br>WINGS,<br>VD PROCEDURES-<br>MENTS- | Defines responsibilities and<br>and issue of contractor dra<br>procedures to be used du<br>of nuclear power plants.<br>Instructions are provided f<br>issued by FPL, which pres<br>quality of safety related ite                                                                                                     | nd methods for the control<br>awings, specifications and<br>ring-the-construction phat<br>for controlling documents<br>cribe activities affecting the<br>ems.  |
| CONTROL OF CONS<br>CONTRACTOR DRAY<br>SPECIFICATIONS AN<br>6.2<br>CONTROL OF DOCU<br>ISSUED BY FPL<br>6.3<br>CANCELLED<br>6.4<br>CANCELLED<br>6.5<br>CANCELLED                                              | FRUCTION PROJECT-<br>WINGS,<br>VD PROCEDURES            | <ul> <li>Defines responsibilities and and issue of contractor draprocedures to be used du of nuclear power plants.</li> <li>Instructions are provided lissued by FPL, which pres quality of safety related ited.</li> </ul>                                                                                          | nd methods for the control<br>awings, specifications and<br>ring-the-construction-phat<br>for controlling documents<br>cribe activities affecting the<br>ems.  |
| CONTROL OF CONS<br>CONTRACTOR DRAY<br>SPECIFICATIONS AN<br>6.2<br>CONTROL OF DOCU<br>ISSUED BY FPL<br>6.3<br>CANCELLED<br>6.4<br>CANCELLED<br>6.5<br>CANCELLED<br>6.6<br>DRAWING CONTROL<br>NUCLEAR POWER P | FOR OPERATING                                           | <ul> <li>Defines responsibilities and and issue of contractor draprocedures to be used du of nuclear power plants.</li> <li>Instructions are provided lissued by FPL, which presquality of safety related ite quality of safety related ite updating nuclear safet operating plants after t organization.</li> </ul> | e-used for controlling and<br>by related drawings for controlling documents<br>for controlling documents<br>cribe activities affecting the<br>come.            |

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|                                                                             |                             | <u> </u>                                                                                                           | Rev. 18 - DEL                                                                                            |
|                                                                             | LIST OF                     | CORPORATE QUALITY                                                                                                  | Date 11/16/93                                                                                            |
| FPL                                                                         | ASSUR                       | ·                                                                                                                  | Page 5 of 9                                                                                              |
| OD NILMBED /TIT                                                             | ŕ                           | SECTION DESCRIPT                                                                                                   |                                                                                                          |
|                                                                             | <u>712</u>                  |                                                                                                                    |                                                                                                          |
| 7.1<br>RECEIPT INSPECTION<br>AT THE PLANT SITE                              | ON OF ITEMS                 | Provides instructions for re-<br>materials, parts and compo<br>obtained for use in nuclea<br>operating plant site. | ecceipt-inspection-of-<br>ments which-have-been<br>tr-safety-applications-at-t                           |
| 7.2<br>CANCELLED                                                            | ,                           | · · · · · · · · · · · · · · · · · · ·                                                                              |                                                                                                          |
| <del>7.3</del><br>CANCELLED                                                 |                             |                                                                                                                    |                                                                                                          |
| 7.4<br>EVALUATION OF SU<br>SAFETY-RELATED I<br>SERVICES<br>7.5<br>CANCELLED | JPPLIERS OF<br>FEMS-OR      | Provides-standards,-measu<br>the evaluation of QA Progr<br>or suppliers-supplying iten                             | res, and guidelines for-<br>ams of contractors<br>as or services.                                        |
| 7.6<br>ACCEPTANCE OF 11<br>7.8                                              | <del>EMS AND SERVICES</del> | Describes-the-responsibili<br>accepting-nuclear safety-re<br>are-being-procured for-nucl                           | ities and requirements f<br>lated items or services th<br>lear power plants.                             |
| 7.9<br>CONTROL OF ON SI                                                     | TE-SERVICES                 | This-procedure provides a<br>vendors who provide on s<br>purchase order to FPL-at                                  | system to assure that<br>ite services by contract<br>-nuclear power plants a                             |
| 8.1<br>IDENTIFICATION AN<br>ITEMS-AT-THE PLAN                               | ND CONTROL OF               |                                                                                                                    | <del>suring-traceability, -</del><br><del>f-items-from-the-</del><br><del>rough-usage-at-operati</del> i |
| <del>8.2</del><br>CANCELLED                                                 |                             |                                                                                                                    |                                                                                                          |
| 9.1<br>CONTROL OF SPECI                                                     | AL PROCESSES                | Delineates the responsibility personnel, and the contract special processes that are                               | ities of organizations ar<br>ol and documentation -<br>applied to safety relate                          |

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|                                                      | <b>FOPICAL QUAL</b> | ITY ASSURANCE REPORT                                                                                                        | APPE                                                          | NDIX E                                               |
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|                                                      |                     | ORPORATE QUALITY                                                                                                            | Date 11                                                       | /16/93                                               |
| FPL                                                  | ABBUMA              | ·                                                                                                                           | Page 6                                                        | of 9                                                 |
|                                                      |                     |                                                                                                                             |                                                               |                                                      |
| OP-NUMBER/TITLE                                      |                     | SECTION DESCRIPTION                                                                                                         | <del>M</del>                                                  |                                                      |
| 9.2<br>CANCELLED<br>(Combined with 9.1)              |                     | a .                                                                                                                         |                                                               |                                                      |
|                                                      |                     |                                                                                                                             | 14<br>14                                                      |                                                      |
| 9.4<br>CONTROL OF WELDING FO<br>POWER PLANTS-        | OR NUCLEAR-         | Delineates responsibilities an<br>control-FPL-welding-proce<br>plants.                                                      | d-requirement<br>sses-for-nuc                                 | <del>is for -</del><br>lear-power                    |
| <del>10.1</del><br>CANCELLED                         |                     | ,<br>,                                                                                                                      |                                                               |                                                      |
| <del>10.2</del><br>CANCELLED                         |                     |                                                                                                                             |                                                               |                                                      |
| 10.3<br>INSPECTION AND SURVER                        | LLANCE-             | Delineates-responsibilities-a<br>inspection-and-surveillance<br>maintenance-activities,-ope<br>systems,-and-fuel-handling-a | nd-requireme<br>- of-safety-re<br>ration-of-saf<br>ctivities. | <del>nts-for-the</del><br>lated-plant<br>ety-related |
| <del>10.4</del><br>CANCELLED                         |                     |                                                                                                                             |                                                               |                                                      |
| <del>10.5</del><br>CANCELLED                         |                     |                                                                                                                             |                                                               |                                                      |
| 10.6<br>CANCELLED                                    |                     | •                                                                                                                           |                                                               |                                                      |
| <del>11.1</del><br>CANCELLED<br>(Combined with 11.4) | ÷                   | ,                                                                                                                           |                                                               |                                                      |
| 11.2<br>CANCELLED<br>(Combined with 11.4)            |                     | · · · · · · · · · · · · · · · · · · ·                                                                                       | •<br>•                                                        | 1                                                    |
| 11.0                                                 | N                   |                                                                                                                             |                                                               | đ                                                    |
| <del>11.3</del><br>CANCELLED<br>(Combined-with 11.4) |                     |                                                                                                                             |                                                               | ,,,<br>,,<br>,                                       |
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|                                                                          | LIST OF CO                                      | RPORATE QUALITY                                                                                                                                                        | Date                                                    | 1                                                                      | 1/16/9                                          | 3                                          |
| FPL                                                                      | ASSURAN                                         |                                                                                                                                                                        | Page                                                    | 7                                                                      | of                                              | 9                                          |
|                                                                          |                                                 |                                                                                                                                                                        | •                                                       | r                                                                      |                                                 |                                            |
| OP NUMBER/TITLE                                                          | ·····                                           | SECTION DESCRIPTION                                                                                                                                                    | <del>)N</del>                                           |                                                                        |                                                 |                                            |
| 11.4<br>TEST-CONTROL                                                     |                                                 | Defines the measures for co<br>to installation, construction<br>tests, startup tests, opera<br>following repairs, replacem<br>nuclear safety related sy<br>components. | ontrol-of<br>on-test<br>tional-t<br>ents-or-<br>stems,  | <del>- proo<br/>s, - pr</del><br><del>osts -</del><br>modil<br>- strue | f tests<br>sopera<br>and-i<br>ficatio<br>stures | - prie<br>tiona<br>retest<br>ns-fe<br>- an |
| 12.1<br>CALIBRATION AND CC<br>MEASURING AND TES                          | NTROL OF<br>TEQUIPMENT                          | — Delineates the responsibilitie<br>described-program-for-main<br>control-of-measuring and tes                                                                         | <del>s-for-im<br/>ntenanc</del><br>t-equipr             | <del>plema<br/>e, cali</del><br>nent (                                 | nting<br>bratic<br>M&T                          | <del>the</del><br>m-and<br><del>E).</del>  |
| <del>12.2</del><br>CALIBRATION CONTRO<br>PLANT-INSTRUMENTA<br>EQUIPMENT- | <del>OL OF INSTALLED<br/>TION AND CONTROL</del> | <ul> <li>Describes the calibration pro-<br/>responsibilities, and establish<br/>control-over the calibration-<br/>and plant-control-equipment.</li> </ul>              | g <del>ram, d</del><br>h <del>es proc</del><br>of-insta | <del>elinea</del><br>Xedure<br>Il inst                                 | <del>tos-</del><br>o <del>s for</del><br>rumen  | tatio                                      |
| <del>13.1</del><br>HANDLING, STORAGE<br><del>OF ITEMS</del>              | AND SHIPPING                                    | Establishes responsibilities a that measures are employed to: -(1) - control the handling.                                                                             | nd-proc<br>-by-FPI<br>-shippin                          | edure<br>- and<br>ng-an                                                | s-to-ac<br>contra<br>1-store                    | isure<br>actor<br>ige-e                    |

13.3 CANCELLED (Combined-with-13.1)

14.1 CANCELLED (Combined with 14.3)

14.2 CANCELLED (Combined with-14.3)

Form 2719 (Non - Stocked) Rev.1/89

|                                                                                               | TOPICAL QUALIT                                          | TOPICAL QUALITY ASSURANCE REPOR                                                                                        |                                                                                          |
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| FPL                                                                                           | AUDOMAIN                                                |                                                                                                                        | Page 8 of 9                                                                              |
|                                                                                               |                                                         |                                                                                                                        |                                                                                          |
| OP NUMBER/TITLE                                                                               |                                                         | SECTION DESCRIPTI                                                                                                      | <del>lon</del>                                                                           |
| 14.3<br>INSPECTION, TEST AN<br>OPERATING STATUS D<br>PLANT OPERATION                          | D<br>URIŅG-                                             | - Defines the measures and re<br>identification of the inspect                                                         | esponsibilities for the-<br>ion, test and operating-                                     |
| ·                                                                                             |                                                         | · · ·                                                                                                                  | io, una componento.                                                                      |
| <del>15.1</del><br>CANCELLED<br>(Combined with 15.2)                                          |                                                         |                                                                                                                        |                                                                                          |
| 15.2<br>CONTROL OF NONCONFORMING<br>-MATERIALS, PARTS, COMPONENTS                             |                                                         | -Defines the objectives and r<br>-controlling nonconforming                                                            | esponsibilities for<br>items or services                                                 |
| AND SERVICES FOR ST                                                                           | - LUCIE PLANT                                           | in order-to prevent their-in<br>or application-to-StLucie n                                                            | <del>advertent-use,-installatic</del><br><del>uclear-power-plant</del>                   |
| 15.3<br>CONTROL OF NONCON<br>MATERIALS PARTS C                                                | FORMING                                                 | - Defines the objectives and r                                                                                         | <del>esponsibilities for</del>                                                           |
| AND-SERVICES FOR TU                                                                           | RKEY-POINT PLANT                                        | in-order-to-prevent-their-in                                                                                           | advertent-use, installatio                                                               |
| 16.1<br>CORRECTIVE ACTION                                                                     |                                                         | Establishes-the-respective<br>personnel-and-the-proce<br>conditions-identified-by-the<br>being adverse to quality, are | -responsibilities of FP<br>edure-for assuring the<br>e-FPL-QA Department a<br>corrected. |
| <del>16.2</del><br>CANCELLED<br>(Combined with 16.1)                                          |                                                         |                                                                                                                        | • •<br>•<br>•                                                                            |
| <del>16.3</del><br>CANCELLED<br>(Combined with 16.1)                                          |                                                         |                                                                                                                        |                                                                                          |
|                                                                                               |                                                         |                                                                                                                        |                                                                                          |
| 16.4<br>EVALUATING AND REP<br>AND FAILURE TO COMI<br>SUBSTANTIAL SAFETY<br>ACCORDANCE WITH 10 | ORTING DEFECTS<br>PLY FOR<br>HAZARDS IN<br>CFR-PART 21- | -Specifies the measures and<br>Florida Power & Light to an<br>-10 CFR Part 21.                                         | responsibilities-within<br>ssure-compliance-to-                                          |

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| FPL                                           |                  | •                                                     | Page 9 of                                |
| OP NUMBER/TITLE                               |                  | SECTION DESCRIPT                                      | <del>LION</del>                          |
| 17.1<br>QUALITY ASSURANCE RECORDS             |                  | Identifies-records-and-documents-required             |                                          |
| */                                            | Υ.               | employed for their m<br>retrieval.                    | aintenance, retention-                   |
| <del>18.1</del><br>PERFORMANCE OF Q<br>AUDITS | UALITY-ASSURANCE | Provides instructions for<br>Quality Assurance Progra | conducting audits of FP<br>m activities. |
| <del>18.2</del><br>CANCELLED                  |                  |                                                       |                                          |
| <del>18.3</del><br>CANCELLED                  | a 1              | ۰.                                                    |                                          |
| 18.4<br>CANCELLED                             | ,                | ħ                                                     |                                          |
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|                                                             |                                                                                                                            | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ·                                                                                                      | ,                    |
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|                                                             |                                                                                                                            | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date 11/8/9                                                                                            | 13                   |
| ,                                                           | FPL                                                                                                                        | · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Page 1 of                                                                                              | 42                   |
| 5.0                                                         | DEFINITIONS:                                                                                                               | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                        |                      |
| 1.0                                                         | APPROVAL:                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                        |                      |
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| •                                                           | •                                                                                                                          | Vice President Nuclear Assurance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                                                      |                      |
| 2.0                                                         | PURPOSE:                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                        |                      |
|                                                             | This glossary prov<br>activities <del>during th</del> e                                                                    | vides terms that are used by FPL personnel in the personnel in the personnel in the personnel in the person of for nuclear person of the perso | performance of Qualitower plants.                                                                      | ty                   |
| 3.0                                                         | SCOPE:                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                        |                      |
|                                                             | The terms and deamanual and in docu                                                                                        | finitions appearing in this compilation apply to tho<br>umentation resulting from FPL Quality Program activ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | se that are used in th ities.                                                                          | is                   |
| 4.0                                                         | RESPONSIBILI                                                                                                               | <u>(TY</u> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |                      |
|                                                             | It is the responsibil<br>It is the responsibil                                                                             | lity of the Quality Manager Juno Beach to maintain ar<br>ity of the user to ascertain that these definitions are ap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nd update this glossar                                                                                 | y.                   |
| 5.0                                                         | <b>DEFINITIONS</b> :                                                                                                       | ς.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ,                                                                                                      |                      |
| Abnor                                                       | rmal Occurrence                                                                                                            | An unscheduled incident or event which the significant from the standpoint of public health or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | e NRC determines :<br>r safety.                                                                        | is                   |
| Accep                                                       | tance `                                                                                                                    | The act of assenting to ownership of an item, conforming to specified requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | structure or service a                                                                                 | IS                   |
| Accep<br>Criteri                                            | otance<br>ia                                                                                                               | A limit or limits placed on the variation permitted<br>an item expressed in definitive engineering term<br>tolerances, chemical composition limits, densit<br>temperature ranges, time limits, operating param<br>characteristics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | in the characteristics of<br>is such as dimensionary<br>and size of defect<br>eters, and other similar | of<br>al<br>s,<br>ir |
| FOO'<br>(1) - 7<br>(2) - 0<br>(3) - A<br>(4) - A<br>(5) - N | TNOTE:<br>ANSI 45.2.10 Defini<br>A Manual Appendix<br>ANSI N.18.7 Definiti<br>ANSI NQA-1 Definiti<br>ANSI NQA-1 Definition | ition<br>C Definition<br>ion<br>ion<br>/Excerpt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                        |                      |

|                                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                      |                                                                        |                                                                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                           |                                                                                                                                                                                                                                                                                                                                               | Rev.                                                                   | 17 Draft B                                                                             |
|                                           | GLOSSARY                                                                                                                                                                                                                                                                                                                                      | Date                                                                   | 11/8/93                                                                                |
| FPL                                       | <i>.</i> .                                                                                                                                                                                                                                                                                                                                    | Page                                                                   | 2 of 42                                                                                |
| 5.0 <b>DEFINITIONS</b> :                  | (Cont'd)                                                                                                                                                                                                                                                                                                                                      |                                                                        | •                                                                                      |
| Accepted Industry<br>Standard<br>Accuracy | A standard established by a group representing diff<br>industry who normally are those engaged in m<br>standard is "accepted" by the responsible organiza<br>AGMA - American Gear Manufacturers Associatio<br>Institute of Steel Construction, AISE - Associatio<br>Engineers.<br>The degree of conformity of a measured value to a<br>value. | erent me<br>anufactu<br>tion. Ex<br>on, AISC<br>on of Iro<br>an accept | mbers of an<br>uring. This<br>amples are:<br>- American<br>n and Steel<br>ted standard |
| Activity Audits                           | Performed supplemental to Program Audit to<br>development and/or implementation of spec<br>plants/departments in accordance with Quality Ir<br>implementing procedures. Activity Audits may b<br>series of such audits will verify the development an<br>a portion of the Quality Assurance Program.                                          | > verify<br>>ific ac<br>1struction<br>the planne<br>1d implen          | procedure<br>tivities by<br>ns or other<br>ed so that a<br>mentation of                |
| Analysis                                  | A process of mathematical or other logical reason<br>stated premises to the conclusion concerning spe<br>equipment and its adequacy for a particular application                                                                                                                                                                              | ning that<br>cific car<br>on.                                          | leads from<br>pabilities of                                                            |
| (1)Approval                               | An act of endorsing or adding positive authorization                                                                                                                                                                                                                                                                                          | ı, or both                                                             |                                                                                        |
| Approved As-Built<br>Marked Up Drawings   | Drawings marked up per plant change/modification<br>Nuclear Engineering and field checked by Nucl<br>drawings have received proper review and are app<br>from Nuclear Energy and Nuclear Engineering.                                                                                                                                         | n docum<br>clear En<br>proved b                                        | entation by<br>ergy. The<br>by signature                                               |
| Approved Inspector (AI)                   | See "Inspector" (State or Code)                                                                                                                                                                                                                                                                                                               | 'n                                                                     |                                                                                        |
| (1)Appurtenance                           | A part that is attached to a component which has bee                                                                                                                                                                                                                                                                                          | n comple                                                               | eted.                                                                                  |
| As-Built                                  | The plant configuration after implementation of construction or plant change, as approved by Nuclea                                                                                                                                                                                                                                           | f any sp<br>ar Engine                                                  | ecific plant<br>ering.                                                                 |
| (1) As-Built Data                         | Documented data that describes the condition act product.                                                                                                                                                                                                                                                                                     | ually ac                                                               | hieved in a                                                                            |
| As Constructed                            | The plant configuration after implementation of construction or plant change.                                                                                                                                                                                                                                                                 | f any sp                                                               | ecific plant                                                                           |
|                                           |                                                                                                                                                                                                                                                                                                                                               |                                                                        |                                                                                        |

|                             | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                    |                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------|
|                             |                                                                                                                                                                                                                                                                                                                                  | Rev.                                                                | 17 Dr                                                                              | aft I                                |
|                             | GLOSSARY                                                                                                                                                                                                                                                                                                                         | Date                                                                | 11/8/                                                                              | 93                                   |
| FPL                         |                                                                                                                                                                                                                                                                                                                                  | Page                                                                | 3 of                                                                               | 42                                   |
| 5.0 <b>DEFINITIONS</b> :    | (Cont'd)                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                    |                                      |
| (2) Assembly                | A combination of subassemblies or components or to form a workable unit.                                                                                                                                                                                                                                                         | r both, f                                                           | fitted toget                                                                       | her                                  |
| (2) Audit                   | A documented activity performed in accordance wi<br>or checklists to verify, by examination and ev-<br>evidence, that applicable elements of the Quality<br>have been developed, documented and effectiva<br>accordance with specified requirements. An au<br>surveillance or inspection for the purpose of proce<br>acceptance. | th writte<br>aluation<br>Assura<br>vely imp<br>dit does<br>ss contr | en procedu<br>of object<br>ince Progra<br>plemented<br>s not inclu<br>rol or produ | res<br>ive<br>am<br>in<br>ide<br>uct |
| Auditable Justification     | When compliance to 10 CFR 50.49 requirement technical evaluation is provided to demonstrate that the required quality related function when subjected CFR 50.49 harsh environmental conditions.                                                                                                                                  | s is not<br>the item<br>1 to the                                    | t complete<br>n can perfo<br>applicable                                            | e, a<br>rm<br>10                     |
| Audit Finding               | Deviation from specified audit criteria which is evidence.                                                                                                                                                                                                                                                                       | based                                                               | on objecti                                                                         | ive                                  |
| Auditor                     | Any individual who participates in an audit, incl<br>technical specialists and others such as managemer<br>auditors in training.                                                                                                                                                                                                 | uding lo                                                            | ead audito<br>entatives a                                                          | rs,<br>nd                            |
| Audit Program<br>Plan (APP) | Developed in accordance with department ins<br>coverage of all activities required by license commit<br>in the audit program and to demonstrate that this<br>achieved.                                                                                                                                                           | struction<br>ments to<br>s covera                                   | ns to assu<br>o be includ<br>age has be                                            | ed<br>en                             |
| Augmented Quality           |                                                                                                                                                                                                                                                                                                                                  | H .                                                                 |                                                                                    | •                                    |
| Classification (PC-3)       | <ol> <li>PC-3 items and services are not subject to<br/>supplier.</li> <li>This classification may be applied to any ite<br/>subject to non-safety related regulatory requirements imposed by FPL, which inclusion<br/>services defined as quality related</li> </ol>                                                            | 10CFF<br>m or se<br>uiremen<br>de thos                              | R 21 by t<br>ervice that<br>its or spec<br>se items a                              | he<br>is<br>ial<br>nd                |
|                             | NOTE: Basic components cannot be procured PC                                                                                                                                                                                                                                                                                     | -3.                                                                 |                                                                                    |                                      |
| Availability                | The characteristic of an item expressed by the prob<br>operational at a randomly selected future instant in the                                                                                                                                                                                                                  | ability ti<br>me.                                                   | hat it will                                                                        | be                                   |
|                             | Work-monformed as an encoder of the state of the                                                                                                                                                                                                                                                                                 |                                                                     |                                                                                    |                                      |

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|                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |                                                                                                       |
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| E C                             | GLOSSARY                                                                                                                                                                                                                                                                                                                                                       | Date                                                                                                  | 11/8/93                                                                                               |
| FPL                             |                                                                                                                                                                                                                                                                                                                                                                | Page                                                                                                  | 4 of 4                                                                                                |
| 5.0 <b>DEFINITIONS</b> :        | (Cont'd)                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |                                                                                                       |
| Backfitting                     | Backfitting is defined as the modification<br>systems, structures, components, or des<br>the design approval for a facility; or<br>organization required to design, const<br>facility; any of which may result from<br>provision in the NRC rules or the<br>regulatory staff position interpreting the<br>either new or different from a previous<br>position. | n of or a<br>ign of a fa<br>the proce<br>truct or o<br>a new or<br>impositi<br>NRC rul<br>sly applica | ddition to<br>acility; or<br>edures or<br>operate a<br>amended<br>on of a<br>es that is<br>able staff |
| Basic Components                | Those components, structures, and equipme<br>associated design, testing, inspection, and consul<br>nuclear safety related. See Safety Related.                                                                                                                                                                                                                 | ent, as wel<br>lting service                                                                          | ll as their<br>s which are                                                                            |
| Bid Package                     | Proposal by prospective contractor/supplier in re<br>bid. It includes exceptions to requirements<br>specifications, codes, standards, quality and<br>incorporated in or referenced in the request for bi                                                                                                                                                       | sponse to a<br>stated in<br>d other rec<br>d.                                                         | request for<br>drawings,<br>quirements                                                                |
| Blanket Purchase<br>Order (BPO) | A Purchase Order issued to a firm to supply spector<br>to FPL for a specified period of time on an<br>Specific Items or Services are requested to be de<br>use of a Delivery and Work Authorization (DWA)<br>the specific scope of work.                                                                                                                       | cified items<br>"as reques<br>elivered or s<br>) form which                                           | or services<br>ted" basis.<br>supplied by<br>delineates                                               |
| Blanket Purchase                | ,                                                                                                                                                                                                                                                                                                                                                              |                                                                                                       | *                                                                                                     |
| Order Release<br>(BPOR)         | A release or authorization to a supplier who hol<br>Order to provide specific items as defined in<br>Order. This is a PMIS generated document.                                                                                                                                                                                                                 | ds a Blanke<br>the Blanke                                                                             | et Purchase<br>t Purchase                                                                             |
| Break-In Period                 | That early period, beginning at some stated the failure rate of some items is decreasing rapid failure" period.                                                                                                                                                                                                                                                | me, during<br>lly; also cal                                                                           | which the<br>lled, "early                                                                             |
| Calibration                     | Comparison of an item of Measuring and Test Eq<br>a reference standard or item of M&TE of equal<br>detect and quantify inaccuracies and to repor<br>inaccuracies by adjustment.                                                                                                                                                                                | uipment (M<br>or closer to<br>t and elimi                                                             | l&TE) with<br>lerances to<br>nate those                                                               |
| Carrier                         | The transporting agency.                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |                                                                                                       |
|                                 |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |                                                                                                       |
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|                                  | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                               |                                                    |                                                        |                |
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|                                  | GLOSSARY                                                                                                                                                                                                                               | Date                                               | 11/8/9                                                 | 93             |
| FPL                              | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                  | Page                                               | 5 of                                                   | 42             |
| 5.0 <b>DEFINITIONS</b> :         | (Cont'd)                                                                                                                                                                                                                               |                                                    |                                                        |                |
| (1)Certificate of<br>Compliance  | A written statement, signed by a qualified party, a<br>or services are in accordance with specifie<br>accompanied by additional information to substantia                                                                              | ttesting t<br>d requir<br>ate the st               | hat the iter<br>rements an<br>atement.                 | ns<br>nd       |
| (1)Certificate of<br>Conformance | A written statement, signed by a qualified party, ce services comply with specific requirements.                                                                                                                                       | rtifying                                           | that items                                             | or             |
| (1)Certification                 | The action of determining, verifying and attestin qualifications of personnel or material; i.e, a v qualification.                                                                                                                     | g, in wr<br>vritten te                             | iting, to tl<br>estimony                               | he<br>of       |
| Certified Personnel              | Persons who are periodically certified by their resp<br>being qualified to perform assigned work. Certific<br>by documentation that verifies education or training<br>and periodic review to assure initial and continuing             | pective e<br>ation is s<br>g, testing<br>proficier | mployers a<br>substantiate<br>g, evaluation<br>icies.  | as<br>ed<br>on |
| Certified As-Constructed         | Documentation provided by and approved by Nuc<br>Construction, to provide objective evidence as to<br>configuration.                                                                                                                   | clear End<br>the as-                               | ergy or FP<br>constructe                               | L<br>d         |
| Certified Standards              | Standards of measurement whose accuracy can be the the National Institute of Standards and Technology.                                                                                                                                 | traced to                                          | standards                                              | at             |
| (1)Certified<br>Test Report      | A written and signed document, approved by a contains sufficient data and information to verify the items and the actual results of all required tests.                                                                                | qualified<br>e actual p                            | d party, th<br>properties of                           | at<br>of       |
| Channel                          | An arrangement of components and modules as resingle protective action signal when required by condition. A channel loses its identity where sing combined.                                                                            | equired to<br>a genera<br>le action                | o generate<br>ating static<br>signals a                | a<br>on<br>ce  |
| (1)Characteristic                | Any property or attribute of an item, process, or ser-<br>describable, and measurable, as conforming or<br>specified quality requirements. Quality characte<br>identified in specifications and drawings which<br>process, or service. | vice that<br>noncon<br>ristics a<br>describ        | is distinct,<br>forming t<br>re generall<br>e the iten | ю<br>У<br>1,   |
| (1)Checks                        | The tests, measurements, verifications or controls p<br>by means of investigations, comparisons, or exami<br>satisfactory condition, accuracy, safety or performan                                                                     | placed or<br>nations t<br>nce.                     | n an activit<br>o determin                             | y<br>ie        |
| Chemical Conditioning            | The addition of chemicals to flush, rinse, or lay precipitation of dissolved solids, inhibit corrosion, e                                                                                                                              | up water<br>etc.                                   | to prever                                              | nt             |

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|---------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------|-------------------------------------------------|----------------------------------------------------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------|--------------------------------------|--------------------------------------------------------|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------|----------------------------------|--------------------------------------|---------------------------------------|-----|-----|-------|--------------|------------|-----------------|----------------|--------|
| Draft F                                           | 17 Dr.                                                                         | 17 Di                          |                                                      | R                                                    |                                          |                                                 |                                                    |                                            |                                                     |                                                    | 1                                                 |                                                                             |                                            |                                                     |                                             |                                      |                                                        |                               |                                             |                                     |                                        |                                  |                                      |                                       |     |     |       |              |            |                 |                |        |
| /8/93                                             | 11/8/                                                                          |                                | )ate                                                 | D                                                    |                                          |                                                 |                                                    |                                            |                                                     |                                                    |                                                   |                                                                             |                                            | 2                                                   | RY                                          | SA                                   | oss                                                    | GL                            | C                                           |                                     |                                        |                                  |                                      |                                       |     |     |       |              |            |                 |                |        |
| of 42                                             | 6 of                                                                           | _                              | age                                                  | Pa                                                   |                                          |                                                 |                                                    |                                            |                                                     |                                                    |                                                   |                                                                             |                                            |                                                     |                                             |                                      | •                                                      |                               |                                             |                                     |                                        |                                  |                                      |                                       |     | L   | Ð     |              |            |                 |                |        |
|                                                   |                                                                                |                                |                                                      |                                                      |                                          |                                                 |                                                    |                                            |                                                     | -                                                  | -                                                 | -                                                                           | • .                                        |                                                     |                                             |                                      |                                                        |                               |                                             |                                     | 1                                      | :'d)                             | on                                   | (C                                    | IS: | 101 | IT    | FIN          | )E)        | D               | .0             | 5      |
| at are<br>actor<br>rwise<br>to the                | ems that a<br>tion, reac<br>or otherwa<br>aterial to a                         | ste<br>lat<br>oi<br>nai        | d sys<br>nt isol<br>oval,<br>ive n                   | nt and<br>nmen<br>remo<br>ioacti                     | men<br>tain<br>eat 1<br>adio             | uipr<br>cont<br>or he<br>of r                   | equi<br>n, co<br>actor<br>ase o                    | ric ec<br>own,<br>reacte<br>lease          | tric e<br>lown<br>reac<br>eleas                     | ctric<br>down<br>l read<br>releas                  | ctric<br>tdov<br>1 re:<br>rele                    | ectr<br>itdo<br>id r<br>i rel                                               | elec<br>hut<br>and<br>int i                | ne e<br>r sh<br>nt a<br>icar                        | f the<br>tor<br>nen<br>nifi                 | n of<br>eac<br>inn<br>sign           | ation<br>cy 1<br>onta<br>ing 1                         | ific<br>gen<br>d c<br>enti    | assi<br>nerg<br>and<br>reve                 | o er<br>ing,<br>n pi<br>ent.        | fety<br>al t<br>soli<br>al i           | saf<br>ntia<br>cc<br>ntia<br>ron | he<br>sse<br>ore<br>sse<br>nvi       | T<br>c<br>e<br>e                      |     |     |       | 1            |            | E               | las:           | •      |
|                                                   |                                                                                | _                              |                                                      | _                                                    | _                                        |                                                 |                                                    |                                            |                                                     |                                                    |                                                   |                                                                             |                                            |                                                     | _                                           |                                      |                                                        | _                             |                                             |                                     |                                        |                                  |                                      | _                                     |     | -   | res   | ctu          | tru        | I.S             | lass           | C      |
| 1 and<br>t in a                                   | utdown a<br>l result ir                                                        | hu<br>ld                       | afe sl<br>coul                                       | ihe sa<br>mage                                       | o th<br>dan                              | ial to<br>or c                                  | entia<br>ure c<br>al.                              | ssent<br>tilure<br>rial.                   | essen<br>failur<br>erial.                           | esse<br>failu<br>terial                            | ess<br>fail<br>ateri                              | e es<br>fa<br>atei                                                          | are<br>ose<br>ma                           | at a<br>hos<br>ve r                                 | tha<br>wl<br>ctiv                           | nt<br>or<br>ioa                      | pme<br>ctor<br>rad                                     | qui<br>rea<br>e of            | d ea<br>he i<br>ease                        | an<br>of t<br>rel                   | res<br>on o<br>ant                     | ctu<br>tio<br>fic                | tru<br>ola<br>gn                     | S<br>is<br>si                         | ь   |     | ı     | nent         | pm         | qui             | nd E           | a      |
| it are<br>, and<br>ictive                         | tion but a<br>ceactor, a<br>radioacti                                          | rat<br>re<br>of                | r oper<br>f the<br>ase o                             | eactor<br>on of<br>relea                             | o rea<br>atio<br>nt 1                    | nt to<br>isola<br>ficar                         | ortant<br>nd is<br>gnific                          | porta<br>and<br>signi                      | nport<br>and<br>sign                                | mpor<br>n an<br>i sigi                             | mpo<br>n a<br>a si                                | imj<br>vn<br>a s                                                            | re in<br>own<br>n a                        | t are<br>itdo<br>t in                               | hat<br>hu:<br>ult                           | nt ti<br>e s<br>res                  | omer<br>saf<br>not                                     | quij<br>the<br>ani            | dec<br>toi<br>rec                           | and<br>tial<br>ilur                 | res<br>en<br>fa<br>1.                  | ctu<br>ess<br>se<br>ria          | tru<br>ot<br>ho                      | S<br>ne<br>w                          |     |     | ires  | uctu<br>ient | Stri<br>pm | П (<br>qui      | lass<br>nd E   | C<br>a |
| ct on                                             | us effect                                                                      | iot                            | eleteri                                              | e a de                                               | ave                                      | ht ha                                           | night                                              | t mig<br>t.                                | at mig<br>nt.                                       | nat m<br>int.                                      | hat r<br>ant.                                     | that<br>lant                                                                | s th<br>pla                                | ants<br>the j                                       | ina<br>of tl                                | am<br>on c                           | cont<br>ratio                                          | ny<br>ope                     | of a<br>ole c                               | val o<br>eliat                      | nov<br>1 re                            | ren<br>and                       | he<br>Ife                            | T<br>sa                               | -   |     |       | ٠            |            | ing             | lear           | C      |
| , and<br>other                                    | ndards, a<br>il or oth                                                         | tan<br>oi                      | ied sta<br>rust,                                     | ermin<br>avy r                                       | leten<br>neav                            | pred<br>le, h                                   | ith pr<br>scale                                    | with<br>, sca                              | with<br>t, sca                                      | e wit<br>rt, sc                                    | æw<br>.rt, s                                      | ce v<br>irt,                                                                | anco<br>di                                 | rda<br>m                                            | cor<br>froi                                 | ac<br>n f                            | in in<br>edoi<br>ities                                 | clea<br>fre<br>pui            | ng c<br>les<br>; im                         | bein<br>npli<br>ting                | of<br>ir<br>ina                        | ate<br>lly<br>ami                | sta<br>sua<br>ont                    | A<br>u:<br>co                         |     |     |       | SS           | nes        | an              | )CI            | (      |
| ssing<br>ssing                                    | processi<br>processi                                                           | or<br>or                       | ng or<br>sing o                                      | usir<br>ien us                                       | en<br>whe                                | wh<br>ved                                       | ved v<br>volve                                     | owed<br>invol                              | lowe<br>invo                                        | llowe<br>s inv                                     | llov<br>ls in                                     | ollo<br>lls i                                                               | fol<br>kill                                | be t<br>e sk                                        | b<br>the                                    | tc<br>ng                             | lard<br>cifyi                                          | and                           | d st<br>or s                                | izeo<br>or f                        | ogn<br>ls,<br>ls.                      | eco<br>ria<br>ria                | r<br>ate<br>ate                      | A<br>m<br>m                           |     |     |       |              |            |                 | ode            | C      |
| s for<br>four<br>nents<br>ents.<br>ents.          | "Rules f<br>has fo<br>componer<br>omponen<br>quirement                         | I,<br>s,"<br>co<br>req         | on III<br>nents<br>stem<br>nent<br>nce re            | Section<br>mpon<br>id system<br>stainn<br>ssurar     | e, S<br>Con<br>fluid<br>cont<br>y as:    | Code<br>it C<br>for f<br>tor c<br>ality         | el Co<br>lant<br>3 fo<br>eacto<br>qual             | ssel (<br>Plar<br>nd 3<br>reac<br>nd qu    | Pla<br>Pla<br>Ind 3<br>r read<br>and q              | essel<br>r Pl<br>and<br>or rea<br>and              | vesse<br>r P<br>and<br>or re<br>and               | Ves<br>er<br>an<br>or<br>n ar                                               | e V<br>wei<br>2, 3<br>2 fo<br>ign          | ure<br>Pov<br>1,2<br>AC<br>lesig                    | es<br>P<br>es<br>I M<br>y de                | Pre<br>ear<br>ass<br>and<br>cify     | ind<br>lucl<br>c Cl<br>le, spe                         | er a<br>Ode<br>Coc<br>ons     | oile<br>of<br>: Ce<br>ne (<br>catio         | E B<br>ion<br>ons<br>y th<br>sific  | SM<br>uct<br>cati<br>l b<br>las        | AS<br>stru<br>ific<br>rec<br>e c | he<br>on<br>ass<br>ove<br>hes        | T<br>C<br>cl<br>cc<br>T               |     |     |       | es           | ISS(       | Cla             | ode            | C      |
| cific<br>re or                                    | eer specif<br>structure                                                        | ine<br>n, s                    | Engi<br>item                                         | gned i<br>nt an                                      | ssig:<br>men                             | n) as<br>ocur                                   | tion)<br>or doc                                    | zatio<br>l or d                            | izatio<br>11 or (                                   | nizati<br>all or                                   | niza<br>all c                                     | uniz<br>tall                                                                | rgar<br>inst                               | org<br>1, in                                        | ng<br>ign                                   | eri<br>des                           | gine<br>' to (                                         | en<br>lity                    | (or<br>sibi                                 | eer<br>pon                          | gin<br>res                             | eng<br>or i<br>m.                | he<br>sk<br>vste                     | T<br>ta<br>sy                         |     | er  | inee  | Eng          | nt I       | zar             | ogn            | C      |
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| B                                                 | <del>/ironme</del>                                                             | • <del>••</del>                | <del>of e</del> i                                    | <del>ction-</del>                                    | <del>stec</del>                          | <del>э-ргс</del>                                | the j                                              | to-th                                      | <del>-to-t</del> ł                                  | <b>r-to-</b> l                                     | <del>r-to</del>                                   | <del>)r-t</del>                                                             | <del>8-0</del> 1                           | <del>sito</del>                                     | <del>-a-s</del>                             | <del>of</del> -                      | lity                                                   | tab                           | <del>sui</del> f                            | the-                                | <del>to-</del> `                       | ₩<br>) <del>5.</del> -           | lat<br>lu                            | <del>re</del><br>₩                    |     |     |       |              | ,          |                 |                |        |

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|                                                      | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                   |                                                                                                                                    |
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|                                                      | GLOSSARY                                                                                                                                                                                                                                                                                                   | Date 11/8/93                                                                                                                       |
| FPL                                                  | •                                                                                                                                                                                                                                                                                                          | Page 7 of 4                                                                                                                        |
| 5.0 <b>DEFINITIONS</b> :                             | (Cont'd)                                                                                                                                                                                                                                                                                                   | •                                                                                                                                  |
| Commercial<br>(4) Grade Item                         | An item that is (1) not subject to design or spe<br>that are unique to facilities or activities licensed<br>used in applications other than facilities or act<br>NRC, and (3) to be ordered from the manufactur<br>of specifications set forth in the manufacture<br>description (for example, a catalog). | cification requirements<br>l by the NRC, and (2)<br>tivities licensed by the<br>er/supplier on the basis<br>er's published product |
| Common Failure Modè                                  | A mechanism by which a single design basis ever<br>equipment to be inoperable.                                                                                                                                                                                                                             | ent can cause redundant                                                                                                            |
| Company Nuclear<br>Review Board<br>(CNRB)            | A group established to assist Company Manag<br>nuclear generating facilities are operated and ma<br>with NRC license requirements.                                                                                                                                                                         | ement in assuring that<br>intained in compliance                                                                                   |
| Completely Filled Out<br>Quality Assurance<br>Record | A Quality Assurance Record is completely fille<br>necessary or normal parts, elements, or steps; it la                                                                                                                                                                                                     | ed out when it has all acks nothing essential.                                                                                     |
| (1) Component                                        | A piece of equipment such as a vessel, piping<br>support structure, which will be combined with<br>form an assembly.                                                                                                                                                                                       | , pump, valve or core<br>h other components to                                                                                     |
| Component Identification<br>Number                   | An identification number assigned to an item i lifetime.                                                                                                                                                                                                                                                   | for use throughout its                                                                                                             |
| Computer Program                                     | A sequence of instructions suitable for proce<br>Processing may include the use of an assen<br>interpreter, or a translator to prepare the program                                                                                                                                                         | ssing by a computer.<br>nbler, a compiler, an<br>for execution.                                                                    |
| Computer Software                                    | Computer programs, procedures, rules, and documentation and data pertaining to the ope system.                                                                                                                                                                                                             | l possibly associated<br>cration of a computer                                                                                     |
|                                                      | · · · · ·                                                                                                                                                                                                                                                                                                  | х .<br>х                                                                                                                           |
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|                                  | QUALITI ASSOCANCE MANUAL                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                                                    |                                       |
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|                                  | GLOSSARY                                                                                                                                                                                                                                                                                                                                     | Date                                                                               | 11/8/                                                                              | 93                                    |
| 50 DEFINITIONS                   | (Cont'd)                                                                                                                                                                                                                                                                                                                                     | Page                                                                               | 8 of                                                                               | 42                                    |
|                                  | (Contu)                                                                                                                                                                                                                                                                                                                                      |                                                                                    |                                                                                    |                                       |
| Conditions Adverse<br>To Quality | Failures, malfunctions, deficiencies or devia<br>equipment and other nonconformances which a<br>action to correct the immediate condition only. So<br>conditions do not require engineering evaluation<br>10 CFR 50.55(e), 10 CFR 50.73, or 10 CFR 21                                                                                        | tions in a<br>re correct<br>uch nonco<br>or are not<br>deficiencie                 | material a<br>ed by taki<br>nforming<br>reportable<br>es.                          | ind<br>ing<br>as                      |
| Condition Report                 | A nonconformance reporting document un<br>nonconformances at PTN including nonconfo<br>cannot be made acceptable utilizing existing des<br>requiring engineering disposition.                                                                                                                                                                | sed for<br>rming co<br>ign docun                                                   | processi<br>nditions there                                                         | ng<br>hat<br>by                       |
| Configuration `                  | The physical arrangement of components, system                                                                                                                                                                                                                                                                                               | is and stru                                                                        | ctures.                                                                            |                                       |
| Configuration Control            | Measures taken to assure that the physical array<br>systems and components are compatible with<br>those structures, systems and components.                                                                                                                                                                                                  | ngement of<br>the docum                                                            | of structur<br>mentation                                                           | es,<br>of                             |
| Configuration Documentation      | Current and applicable documentation of the plastructures, systems and components.                                                                                                                                                                                                                                                           | iysical arr                                                                        | angement                                                                           | of                                    |
| Confirming Purchase Order        | A written purchase order issued to a supplier as a<br>commitment to buy item(s) or services. The orall<br>a commitment to purchase when a P.O. number is<br>The written (confirming) order must bear the is<br>and have a reference that shows it to be a confir<br>technical and quality requirements stated orally sh<br>confirming order. | confirmati<br>y stated or<br>s given to<br>dentified l<br>ning orde<br>hall be spe | ion to an o<br>rder becon<br>the suppli<br>P.O. numl<br>r. The sa<br>scified on    | ral<br>nes<br>er.<br>per<br>me<br>the |
| Conforming Characteristic        | A characteristic of an item whose measured valu limits.                                                                                                                                                                                                                                                                                      | ne lies wit                                                                        | hin specifi                                                                        | ied                                   |
| Consensus Standard               | A standard established by a group representing<br>particular industry or trade or a part thereof. A<br>those who purchase or use products of the indus<br>those who produce these products. Examples a<br>Standards Institute, American Society of M<br>American Society for Testing and Materials, Ins<br>Electronic Engineers.             | g a cross<br>cross sect<br>stry or trac<br>re: Ameri<br>fechanica<br>titute of E   | section of<br>tion incluc<br>le as well<br>can Nation<br>I Enginee<br>Electrical a | f a<br>les<br>as<br>nal<br>rs,<br>nd  |
|                                  | ,                                                                                                                                                                                                                                                                                                                                            | a*                                                                                 | •                                                                                  |                                       |

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|                                        |                                                                                                                                                                                                                      | Data                                                  | 1/ Dratt                                                        |
|                                        | GLOSSARY                                                                                                                                                                                                             |                                                       | 11/8/93                                                         |
|                                        |                                                                                                                                                                                                                      | Page                                                  | 9 of 4                                                          |
| 5.0 <u>DEFINITIONS</u> :               | (Cont'd)                                                                                                                                                                                                             |                                                       |                                                                 |
| Construction Phase                     | Includes those construction activities that occur<br>Construction Permit to issuance of the Opera<br>permitted projects. Also, from start of physi<br>system acceptance turnover for inplant projects.               | from iss<br>ting Licer<br>cal imple                   | uance of the<br>use for large<br>ementation to                  |
| Construction Tests                     | Those tests (including "flushes and hydros") the<br>construction phase and are necessary to verify<br>each component of a system is complete an<br>applicable specifications, standards, codes, draw<br>information. | at are mad<br>that the ir<br>id compl<br>vings, and   | le during the<br>astallation of<br>ies with the<br>lengineering |
| Construction Work<br>Order (CWO)       | The release and authorization to perform specific or system.                                                                                                                                                         | work on a                                             | specific item                                                   |
| (1) Containment                        | The principal design feature of a nuclear power ge<br>provided for the specified purpose of preventing<br>conditions of a reactor accident, of unacceptable of<br>material beyond a controlled zone.                 | enerating s<br>the release<br>juantities o            | station that is<br>e, even under<br>of radioactive              |
| Contaminants                           | Foreign materials such as mill scale, dirt, oil, che<br>that renders a fluid, solid or surface impure and<br>preset standards of acceptable cleanness.                                                               | micals, an<br>l unclean                               | d any matter<br>according to                                    |
| Contract (Involving<br>Purchase Order) | A binding agreement between two or more persor                                                                                                                                                                       | is or comp                                            | oanies.                                                         |
| Contract Change<br>Order (CCO)         | A serially numbered (preprinted) document, executed, authorizes required contract scope char<br>the Nuclear Materials Management Department<br>supplement or amendment to an existing contract.                      | which wh<br>nges or giv<br>t of the                   | en properly<br>ves notice to<br>need for a                      |
| (1) Contractor                         | Any organization under contract for furnishing<br>includes the terms A/E, NSSS, Vendor, Suj<br>Fabricator and Subtier levels of these where appro                                                                    | items or<br>oplier, Su<br>opriate.                    | services. It<br>bcontractor,                                    |
| Controlled Area                        | A specified area in which exposure of person radioactive material is controlled and which is und person who has knowledge of the appropriate practices, including pertinent regulations, and who applying them.      | onnel to a<br>ler the sup<br>radiation<br>o has respo | radiation or<br>ervision of a<br>protection<br>onsibility for   |
|                                        |                                                                                                                                                                                                                      |                                                       |                                                                 |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rev.                                                | 17 Dm                                                    | ft               |
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| EPL                    | GLOSSARI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Page                                                | 11/8/9<br>10 of ·                                        | <u>-</u>         |
| 5.0 DEFINITIONS:       | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .1                                                  |                                                          |                  |
| Controlled Documents   | Controlled documents are defined as those docu<br>accountability and provide guidance, requirem<br>affecting quality such that lack of up-to-date r<br>quality. Controlled documents include docu<br>following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ments whents, or<br>evisions<br>ments s             | which require<br>instruction<br>may affe-<br>uch as the  | re<br>on<br>ct   |
|                        | <ul> <li>a. design specifications,</li> <li>b. design, manufacturing, construction, and install</li> <li>c. quality program manuals, procedures, and instral</li> <li>d. inspection, manufacturing, and test procedures</li> <li>e. plant operating and maintenance procedures,</li> <li>f. plant Safety Analysis Reports and related design</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | lation dr<br>uctions,<br>and insti<br>n criteria    | awings,<br>ructions,<br>documents                        | 5.               |
| Control Point          | In a sequential operation, a checkpoint at which consistent inspection made or approvals required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ertain da                                           | ta are take                                              | n,               |
| Corrective Action      | Action taken to correct a nonconforming condition w<br>on prevention of recurrence.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | rith speci                                          | fic emphas                                               | is               |
| Critical Design Review | Evaluates the technical adequacy, completeness, ar<br>detailed design before the start of the actual coding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | nd correc                                           | tness of th                                              | 1e<br>,          |
| Curing                 | The process of maintaining a satisfactory moin<br>favorable temperature in concrete during hydration<br>materials so that desired properties of the concrete are                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | sture co<br>of the of the develop                   | ntent and<br>cementitiou<br>ped.                         | a<br>1S          |
| Dead Leg               | Any area that does not have flow during the cleanin cannot be drained without special provision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | g operati                                           | ion or whic                                              | :h               |
| Defect                 | 1. A deviation in a basic component delivered to a a facility or an activity subject to the regulation on the basis of an evaluation the deviation could Safety Hazard; or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | purchas<br>in 10 CF<br>d create                     | er for use i<br>R Part 21 i<br>a Substantia              | n<br>f,<br>al    |
| •                      | 2. The installation, use, or operation of a basic condefect as defined above; or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mponent                                             | containing                                               | a                |
|                        | 3. A deviation in a portion of a facility subject permit or manufacturing licensing requirements provided the deviation could, on the basis of an Substantial Safety Hazard and the portion of the basis | t to the<br>s of 10 (<br>n evaluation<br>ne facilit | constructio<br>CFR Part 5<br>tion, create<br>y containin | n<br>0<br>a<br>g |

|                                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                             |                                                      |                                                    |                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------|
|                                           |                                                                                                                                                                                                                                                                      | Rev.                                                 | 17 Dra                                             | ft B               |
|                                           | GLOSSARY                                                                                                                                                                                                                                                             | Date                                                 | 11/8/9                                             | 3                  |
| FPL                                       | •                                                                                                                                                                                                                                                                    | Page                                                 | 11 of                                              | 42                 |
| 5.0 <b>DEFINITIONS</b> :                  | (Cont'd)                                                                                                                                                                                                                                                             | •                                                    |                                                    | >                  |
|                                           | 4. A condition or circumstance involving a basic contribute to the exceeding of a safety lim technical specifications of a license for operati 10 CFR Part 50.                                                                                                       | compone<br>it, as de<br>on issued                    | nt that cou<br>fined in the<br>pursuant            | ld<br>ne<br>to     |
| (1) Defective<br>Material                 | A material or component which has one or more cha not comply with specified requirements.                                                                                                                                                                            | racteristic                                          | s that do                                          |                    |
| Deficiency                                | An observed condition that is, or appears to be beyond a defined or approved qualitative or quacriterion.                                                                                                                                                            | adverse t<br>antitative                              | o quality o<br>acceptance                          | or<br>ce           |
| Delivery & Work<br>Authorization<br>(DWA) | The release and authorization to a supplier who hold<br>Order (BPO) to perform specific work or to prov<br>defined in the Blanket Purchase Order.                                                                                                                    | s a Blank<br>ide speci                               | et Purchase<br>fic items a                         | e<br>15            |
| Design                                    | Technical and management processes whic<br>identification of design input and which lead to and<br>of design output documents.                                                                                                                                       | ch comn<br>l include                                 | nence with<br>the issuance                         | ih<br>se           |
| Design Bases                              | That information which identifies the specific funct<br>by a structure, system, or component of a facil<br>values, or ranges of values chosen for controlling pa<br>bounds for design.                                                                               | tions to b<br>ity, and<br>trameters                  | e performe<br>the specifi<br>as referenc           | ed<br>ic<br>e      |
| Design Basis<br>Earthquake (DBE)          | That earthquake which produces the maximum vibre<br>that the nuclear power generating station is des<br>without functional impairment of those features nee<br>the reactor, maintain the station in a safe condition<br>risk to the health and safety of the public. | ratory gro<br>signed to<br>ccessary to<br>n, and pro | ound motio<br>withstand<br>o shutdow<br>event undu | n<br>1,<br>n<br>ie |
| Design Basis Event                        | A postulated abnormal event used in the desig<br>generating stations to establish the performance<br>structures and systems of the station.                                                                                                                          | n of nuc<br>requirem                                 | clear powe<br>inents of th                         | er                 |
| Design Basis<br>Event Conditions          | Conditions calculated to occur as a result of the design                                                                                                                                                                                                             | gn basis e                                           | event.                                             |                    |
| Design Controls                           | Methods for assuring that basic design requiremen<br>translated into design documents with proper re-<br>scheduled release of a valid design.                                                                                                                        | ts are for<br>eview to                               | malized an<br>assure th                            | d<br>e             |
|                                           |                                                                                                                                                                                                                                                                      | •                                                    |                                                    |                    |

|                           | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                    |                                                  |                                                        |                    |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------|--------------------|
|                           |                                                                                                                                                                                                                                                                             | Rev.                                             | 17 Dra                                                 | ft B               |
|                           | GLOSSARY                                                                                                                                                                                                                                                                    | Date                                             | 11/8/9                                                 | 3                  |
| FPL                       | • •                                                                                                                                                                                                                                                                         | Page                                             | 12 of                                                  | 42                 |
| 5.0 <b>DEFINITIONS</b> :  | (Cont'd)                                                                                                                                                                                                                                                                    |                                                  |                                                        |                    |
| Design Control Document   | Documents that control the proposal of a plant cl<br>the initial evaluations, the design, review,<br>implementation of a plant change or modification<br>procedure.                                                                                                         | hange or 1<br>authori<br>n, as requ              | nodificatio<br>zation, ar<br>iired by th               | n,<br>id<br>is     |
| Design Criteria           | The summation of knowledge about a thing, technidefines its nature, purpose and limits so that is modified, manufactured, fabricated, applied, used the satisfaction of an established need.                                                                                | ique, or pr<br>it may be<br>or maint             | rocess whic<br>develope<br>ained towar                 | ch<br>d,<br>rd     |
| Design Input              | Those criteria, parameters, bases or other design which detailed final design is based.                                                                                                                                                                                     | gn require                                       | ements upo                                             | n                  |
| Design Interface          | The common boundary within or between con<br>structures in which the expertise of two or more e<br>(fields of study) are shared to assure the functional                                                                                                                    | nponents,<br>ngineerin<br>adequacy               | systems of discipling of the item                      | or<br>es<br>s.     |
| Design Interface External | Relationship between design groups from<br>Examples are the interfaces between the plant ov<br>engineer or the plant owner and the NSSS (N<br>System) supplier, or the architect engineer and the                                                                           | different<br>wner and<br>luclear St<br>NSSS sup  | companie<br>the architee<br>eam Suppl<br>plier.        | es.<br>ct<br>y     |
| Design Interface Internal | Relationship between design groups or organization                                                                                                                                                                                                                          | ns within a                                      | a company.                                             |                    |
| Design Life               | The time during which satisfactory performance specific set of service conditions.                                                                                                                                                                                          | can be ex                                        | pected for                                             | a                  |
| Design Output             | Documents such as drawings, specifications a defining technical requirements of structures, system                                                                                                                                                                          | and other<br>ms and co                           | document<br>mponents.                                  | ts                 |
| Design Requirements       | Documents that set the functional requirements,<br>safety requirements, performance objectives, desig<br>life. Included are any special requirements for size<br>materials, fabrications or construction, testing, m<br>environments, safety margins, and derating factors. | operating<br>n margins<br>, weight,<br>aintenanc | conditions<br>, and desig<br>ruggedness<br>e, operatin | s,<br>n<br>s,<br>g |
| Design Review             | An analysis of design with respect to technical<br>control, inspectability, reliability, maintainability<br>applicable codes, standards, regulations, and design                                                                                                            | adequac<br>; and con<br>criteria.                | y, interfac<br>formance t                              | e<br>0             |
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| ſ                               |                                   | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                            |                                                                                                               |                                        |
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| 1                               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rev.                                                                                                       | 17 Dra                                                                                                        | lft B                                  |
|                                 |                                   | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date                                                                                                       | 11/8/9                                                                                                        | 93                                     |
|                                 | FPL                               | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Page                                                                                                       | 13 of                                                                                                         | 42                                     |
|                                 | 5.0 <u>DEFINITIONS</u> :          | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                            |                                                                                                               |                                        |
|                                 | Design Verification               | Checking or verifying the adequacy of designerformance of design reviews, the use of sin calculation methods or by the performance of a suita                                                                                                                                                                                                                                                                                                         | n, such<br>nplified<br>ble test p                                                                          | as by tl<br>or alterna<br>rogram.                                                                             | he<br>te                               |
|                                 | •                                 | The design verification shall be performed and doc<br>other than the originator of the design. If necessary<br>be performed by the originator's supervisor, provid<br>not specify a singular design approach or rule<br>considerations, and did not establish the design input<br>The use of the originator's supervisor for design v<br>restricted to special situations where the supervisor<br>within the design organization competent to perform | umented<br>, the veri<br>ed the su<br>e out cen<br>its used in<br>rerification<br>is the onl<br>the verifi | by a perso<br>fication ma<br>pervisor d<br>ttain desig<br>the desig<br>on should t<br>by individu<br>ication. | on<br>iy<br>id<br>gn<br>n.<br>xe<br>al |
|                                 | Designated Design<br>Organization | The engineering organization that is assigned by design work for a particular item or service. This i Engineering or any of Nuclear Engineering's contract                                                                                                                                                                                                                                                                                            | FPL to<br>ncludes H<br>ctors.                                                                              | perform the PL Nucles                                                                                         | ne '<br>ar                             |
|                                 | Desk Survey                       | An evaluation of a supplier's quality control can documented procedures and records of past performance.                                                                                                                                                                                                                                                                                                                                              | apability<br>ance.                                                                                         | made from                                                                                                     | m                                      |
|                                 | (1) Deviation                     | A nonconformance or departure of a characteristic free requirements.                                                                                                                                                                                                                                                                                                                                                                                  | om a spec                                                                                                  | cified                                                                                                        |                                        |
|                                 | Document                          | A written or printed paper bearing the original, offi<br>something that can be used to provide decisive inform                                                                                                                                                                                                                                                                                                                                        | cial, or le<br>mation or                                                                                   | egal form of proof.                                                                                           | of                                     |
|                                 | (1) Documentation                 | Any written or pictorial information describing, or reporting, or certifying activities, requirements, proc                                                                                                                                                                                                                                                                                                                                           | defining,<br>edures of                                                                                     | specifying<br>r results.                                                                                      | g,                                     |
| 1                               | Drawing Manifest                  | A document for transmitting drawings released<br>Engineering, Construction and Production.                                                                                                                                                                                                                                                                                                                                                            | for cons                                                                                                   | truction, t                                                                                                   | :0.                                    |
|                                 | Dynamic Load Test                 | A test wherein designated loads are hoisted,<br>transported through all motions required to simu<br>intended items.                                                                                                                                                                                                                                                                                                                                   | lowered,<br>late hand                                                                                      | rotated of the                                                                                                | or<br>Ie                               |
| n 2719 (Non - Stocked) Rev.1/89 | (3) Emergency<br>Procedure        | Written instruction that specify actions, including r<br>controls, to avoid further degradation of off-normal<br>do not constitute an accident but could lead to an<br>consequences of an accident or hazardous condit<br>occurred, implement the emergency plan, or p<br>hazardous natural occurrences.                                                                                                                                              | nanipulat<br>which in<br>accident<br>ion that<br>repare f                                                  | tion of plan<br>themselve<br>, reduce th<br>has alread<br>or possibl                                          | nt<br>es<br>le<br>le                   |
| For                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                            |                                                                                                               |                                        |

|                                     | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                               | ļ                                            |                                                        |                     |
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|                                     | GLOSSARY                                                                                                                                                                                                                                               | Date                                         | 11/8/9                                                 | 3                   |
| FPL                                 |                                                                                                                                                                                                                                                        | Page                                         | 14 of                                                  | 42                  |
| 5.0 <u>DEFINITIONS</u> :            | (Cont'd)                                                                                                                                                                                                                                               |                                              |                                                        | μ,                  |
| Engineer                            | The person responsible for the technical aspects of th                                                                                                                                                                                                 | e work.                                      |                                                        |                     |
| Engineered Safety Features li       | Features for mitigating the consequences of poincluding for example, containment, emergency containment atmospheric cleanup systems.                                                                                                                   | ostulated<br>core co                         | accident<br>ooling, an                                 | s,<br>Id            |
| Engineering Hold                    | A request by Engineering to place material or impuntil Engineering releases the item in writing. A typically occurs when design documentation needs issued prior to releasing an item for use.                                                         | lementat<br>An engin<br>s to be r            | ion on hol<br>eering hol<br>eviewed o                  | ld<br>ld ,<br>or    |
| Engineering Limitations I<br>s<br>i | Restrictions which, if disregarded, may result in a shortening the life of the item, or preventing the item intended.                                                                                                                                  | damage (<br>from fui                         | to the iten                                            | 1,<br>15            |
| Equipment Qualification             | The generation and maintenance of evidence to assur<br>will operate on demand to meet the system performan                                                                                                                                             | e that the ice requir                        | e equipmer<br>ements.                                  | nt                  |
| (1) Examination                     | An element of inspection consisting of investig<br>components, supplies or services to determine co<br>specified requirements which can be determined by<br>Examination is usually nondestructive and includ<br>manipulation, gaging, and measurement. | gation of<br>onforman<br>such in<br>les simp | f materials<br>ce to thos<br>vestigation<br>le physica | s,<br>e<br>n.<br>al |
| (3) Experiments E                   | Performance of those plant operations carried o conditions in order to establish characteristics or vak                                                                                                                                                | ut under<br>alues not                        | controlle<br>previousl                                 | d<br>y              |
| (4) External Audit A                | An audit of those portions of another organizations<br>program not under the direct control or within the org<br>of FPL.                                                                                                                               | s's quality<br>anization                     | y assuranc<br>ial structur                             | e<br>e              |
| External Coordination F             | Planning, follow-up and documentation of activit participating companies.                                                                                                                                                                              | ies amor                                     | ng differer                                            | it                  |
| Facility A                          | A building installation, or established area that is used or protection.                                                                                                                                                                               | for mate                                     | rial storag                                            | e                   |
| Failure 7<br>F                      | The termination of the ability of an item to perform it<br>Failures may be announced and not detected to<br>(unannounced failure), or they may be announced a                                                                                          | ts require<br>until the<br>and detec         | d function<br>next test<br>ted by an                   | ı.<br>St<br>Y       |

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|                                         | GLOSSARY                                                                                                                                                                                                                                                                                       | Date                                                                  | 11/8/9                                                                     | )3                  |
| FPL                                     | ·                                                                                                                                                                                                                                                                                              | Page                                                                  | 15 of                                                                      | 42                  |
| 5.0 <b>DEFINITIONS</b> :                | (Cont'd)                                                                                                                                                                                                                                                                                       |                                                                       | -                                                                          |                     |
| Failure Stress                          | That stress at which failure is imminent due to o<br>deflections or vibrations, or permanent deforma<br>unsafe conditions.                                                                                                                                                                     | lirect load<br>tions that                                             | ls, excessiv<br>may lead                                                   | ve<br>to            |
| Field Check                             | The act of verifying that the current plant conf reflected on the drawing.                                                                                                                                                                                                                     | iguration i                                                           | is accurate                                                                | ly                  |
| (4) Final Design                        | Approved design output documents and approved                                                                                                                                                                                                                                                  | changes th                                                            | ereto.                                                                     |                     |
| Final Safety Analysis<br>Report (FSAR)  | Describes the facility, presents the design bas<br>operation, and presents a safety analysis of the st<br>components and of the facility as a whole.                                                                                                                                           | ses and li<br>ructures, s                                             | imits on i<br>systems, ar                                                  | ts<br>1d            |
| First Level<br>Design Review            | A review conducted by the responsible engineer wi<br>for specific design discipline.                                                                                                                                                                                                           | thin the de                                                           | esign ageno                                                                | ÿ                   |
| Flame Retardant                         | Capable of preventing the propagation of a fire influence of the energy source that initiated the fire.                                                                                                                                                                                        | e beyond                                                              | the area of                                                                | of                  |
| Flow Chart                              | A representation of the sequence of activities<br>fabrication, processing, assembly, inspection and t<br>individual operations within one or more of those f                                                                                                                                   | such as p<br>test, or the<br>functions.                               | sequence (                                                                 | it,<br>of           |
| Fluid                                   | Any gas or liquid.                                                                                                                                                                                                                                                                             |                                                                       |                                                                            |                     |
| Flushing                                | Flowing fluid through a component or system a suspend and carry away contaminants.                                                                                                                                                                                                             | t adequate                                                            | e velocity (                                                               | 0                   |
| FPL Company Technical<br>Representative | FPL's designated representative having responsibil<br>administration of a purchase order or contract but r<br>waive any obligations of FPL or the contractor pre-<br>order or contract. The on-site coordinator, as de<br>Company Technical Representative, may be assign<br>responsibilities. | lities and a<br>not having<br>ovided in t<br>esignated<br>ed to assis | authority for<br>authority for<br>the purchas<br>by the FP<br>st with thes | or<br>co<br>ce<br>L |
| Fuel Element                            | The smallest structurally discrete part of a fuel a nuclear materials, such as a fuel rod or fuel pin.                                                                                                                                                                                         | ssembly t                                                             | hat contair                                                                | IS                  |
| Generating Plant                        | A utility company complex, constructed and opera producing electric power.                                                                                                                                                                                                                     | ted for the                                                           | e purpose c                                                                | )f                  |
|                                         |                                                                                                                                                                                                                                                                                                |                                                                       |                                                                            |                     |

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|                                            | GLOSSARY                                                                                                                                                                                                                                                                                              | Date                                                             | 11/8/9                                                                | )3                          |
| FPL                                        |                                                                                                                                                                                                                                                                                                       | Page                                                             | 16 of                                                                 |                             |
| 5.0 <b>DEFINITIONS</b> :                   | (Cont'd)                                                                                                                                                                                                                                                                                              | ·                                                                |                                                                       |                             |
| (2)Guidelines                              | Particular provisions which are considered good pr<br>not mandatory in programs intended to comply with<br>"should" denotes a guideline; the term "shall" denot<br>the word "may" denotes permission, neither a<br>recommendation. (See definition of Requirement)                                    | ractice by<br>Standard<br>es a require<br>require                | ut which a<br>is. The ter<br>irement; au<br>ment nor                  | nd<br>a                     |
| G Force                                    | A unit of acceleration equal to the acceleration of gra<br>used to measure the force on an item undergo<br>expressed as a multiple of the item's weight.                                                                                                                                              | wity (i.e.                                                       | , 32 ft/sec.<br>leration at                                           | ,2)<br>nd                   |
| Handled Load                               | The weight of the item to be lifted plus the weight of such as lifting beam, slings, hooks, and blocks.                                                                                                                                                                                               | any requ                                                         | uired riggin                                                          | ng                          |
| (1) Handling                               | An act of physically moving items by hand or mech including transport modes.                                                                                                                                                                                                                          | anical me                                                        | eans, but n                                                           | ot                          |
| Heavy Load                                 | Any load carried in a given area after a plant beco<br>weighs more than the combined weight of a single<br>and its associated handling tool for the specific plant                                                                                                                                    | mes open<br>spent fu<br>in questi                                | rational, th<br>iel assemb<br>on.                                     | at<br>ly                    |
| Hoisting Equipment                         | Machinery used to physically move an item. T<br>chainfalls, ratchet hoists, etc. This does not in<br>transportation modes such as fork lifts and motor ve                                                                                                                                             | his inclu<br>clude m<br>hicles.                                  | udes crane<br>ovement v                                               | s,<br>ia                    |
| Hold Point                                 | An intermediate step in a step-by-step Procedur<br>Checklist, where an inspection, test, or verification<br>Examples range from a check for cleanliness<br>Examination of individual weld passes.                                                                                                     | e, Work<br>must be<br>to Non                                     | Record<br>performe<br>Destructiv                                      | or<br>d.<br>ve              |
| Housekeeping                               | Encompasses all activities related to control of cle<br>cleanness of material and equipment, fire prevention<br>including disposal of combustible materials and debut<br>and protection of materials.                                                                                                 | anliness<br>on and fin<br>ris, contr                             | of facilitie<br>re protection<br>ol of acces                          | s,<br>on<br>s,              |
| Independent Review<br>& Audit Group (IRAG) | Personnel performing the independent review regardless of whether they operate as part of an orga committee.                                                                                                                                                                                          | and aud<br>nizationa                                             | it function<br>l unit or as                                           | n,<br>a                     |
| Initial Start-Up Testing                   | Testing conducted at and after fuel loading and<br>operation that confirm the design bases and demonst<br>that the plant is capable of withstanding the antic<br>postulated accidents. The initial start-up tests const<br>as precritical tests, low power test (including criti-<br>ascension tests. | l before<br>rate, whe<br>ipated tra<br>ists of su<br>ical test), | commerci<br>ere practica<br>ansients ar<br>ch activitio<br>, and powe | al<br>il,<br>id<br>es<br>er |

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|                                              | GLOSSARY                                                                                                                                                                                                                             | Date 11                                               |                                                     | 1/8/93               |  |
| FPL                                          | •                                                                                                                                                                                                                                    | Page                                                  | 17 of                                               | 42                   |  |
| 5.0 DEFINITIONS                              | S: (Cont'd)                                                                                                                                                                                                                          | -<br>'\                                               |                                                     |                      |  |
| Input Organization                           | The organization responsible for providing input<br>for preparation of outgoing Nuclear Rea<br>correspondence.                                                                                                                       | s to Nucle<br>gulatory (                              | ar Licensi<br>Commissio                             | ng<br>on             |  |
| In-Process Tests                             | Tests performed during the course of fabrication<br>maintain control of items and materials. These test<br>the manufacturer or supplier, but samples for the<br>from items and materials that are supplied to the site               | on and con<br>s may be p<br>se tests m<br>te for use. | nstruction<br>performed<br>hust be take             | to<br>by<br>en       |  |
| Inspector                                    | The person who performs inspections or exar<br>compliance with specifications, procedures, dra<br>standards.                                                                                                                         | ninations<br>wings, an                                | to determi<br>id applicat                           | ne<br>ole            |  |
| (1)Inspector<br>(State or Code)              | A qualified inspector employed by a legally co<br>Municipality or state of the United States, or reg<br>Authorized Inspection agency and having author<br>site of manufacture or installation. Also is know<br>Inspector" or "(AI)". | onstituted<br>ularly emp<br>ized juriso<br>wn as the  | agency of<br>ployed by<br>liction at t<br>"Authoriz | 'a<br>an<br>he<br>ed |  |
| (2) Inspector (Owner's or Installer's)       | A qualified inspector employed by the Owner or include the verification of quality related activities                                                                                                                                | Installer, v<br>on installat                          | whose duti<br>tions.                                | es                   |  |
| <ul><li>(2) Inspection</li><li>(3)</li></ul> | Examination, observations, or measurement to dete<br>conformance of materials, supplies, components, j<br>systems, processes, or structures to predetermined                                                                         | ermine the<br>parts, appu<br>requireme                | irtenances,<br>ents.                                |                      |  |
| Inspection and<br>Test Plan                  | A listing of all the inspections and tests required specific item, component, structure or service.                                                                                                                                  | to be per                                             | formed for                                          | a                    |  |
| Installed Life                               | The time interval for which an equipment or cominstalled; e.g., a motor may have an installed life of components of the motor being replaced periodic life of the components would be less than 40 years                             | ponent the<br>of 40 years<br>ally; thus,              | ereof will<br>s with certa<br>the install           | be<br>in<br>ed       |  |
| Instructions                                 | A series of logical and well defined steps whic<br>necessarily limited to, written descriptions that pu<br>uniform method for achieving an objective.                                                                                | h are usu<br>rovide an                                | ally, but n<br>efficient a                          | ot<br>nd             |  |
| Interface Control                            | The steps that are taken to assure that structural,<br>and environmental common boundaries between<br>geometrically and functionally compatible.                                                                                     | mechanic<br>n adjacent                                | al, electric<br>regions a                           | al,<br>re            |  |
|                                              |                                                                                                                                                                                                                                      |                                                       |                                                     |                      |  |

|                                      | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                               | 3                                                                                                 |                                 |  |  |
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|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rev.                                                                                          | 17 Dra                                                                                            | ft B                            |  |  |
|                                      | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                      | Date                                                                                          | 11/8/9                                                                                            | 3                               |  |  |
| FPL                                  | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                         | Page                                                                                          | 18 of                                                                                             | 42                              |  |  |
| 5.0 DEFINITIONS:                     | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                               | -                                                                                                 |                                 |  |  |
| (4) Internal<br>Audit                | An audit of those portions of the FPL Qualit retained under it's direct control and within the org FPL.                                                                                                                                                                                                                                                                                                                                       | y Assuran<br>anizational                                                                      | ce Progran<br>I structure o                                                                       | m<br>of                         |  |  |
| Internal Coordination                | Planning, follow-up and documentation of activiti organizations within a company.                                                                                                                                                                                                                                                                                                                                                             | es among j                                                                                    | participatin                                                                                      | ıg -                            |  |  |
| Internal Design<br>Interface         | Relationship between design groups or organizatio                                                                                                                                                                                                                                                                                                                                                                                             | ns within a                                                                                   | company.                                                                                          |                                 |  |  |
| Isolation Device                     | A device placed in a circuit to prevent malfunct<br>cause unacceptable influences in other sections<br>circuits.                                                                                                                                                                                                                                                                                                                              | tions in on<br>of the circ                                                                    | e section t<br>suit or othe                                                                       | :0<br>27 .                      |  |  |
| (1) Item                             | Any level of unit assembly, including structure, sys subassembly, component, part or material.                                                                                                                                                                                                                                                                                                                                                | stem, subsy                                                                                   | /stem,                                                                                            |                                 |  |  |
| Item Control<br>Area (ICA)<br>Lay-up | A defined area within the nuclear power plant<br>materials records are maintained in such a way that<br>count and related quantities of nuclear materials can<br>records for the nuclear materials located within the<br>physical boundaries. ICA's generally consist of r<br>reactors, and irradiated fuel storage areas.<br>The protection of an item after it has been<br>deterioration while the item is out of service of<br>operations. | for which<br>at, at any ti<br>n be obtair<br>area. ICA<br>new fuel st<br>cleaned,<br>awaiting | the nuclea<br>me, an iter<br>hed from th<br>'s shall hav<br>orage areas<br>to prever<br>subsequer | ar<br>ne<br>e<br>s,<br>nt<br>nt |  |  |
| Lead Auditor                         | An individual whose experience and training qualifies him to organize<br>and direct an audit, report audit findings, and evaluate corrective action.                                                                                                                                                                                                                                                                                          |                                                                                               |                                                                                                   |                                 |  |  |
| Lifetime Records                     | Records which are required by the NRC facility<br>NRC construction permit, applicable parts of 10<br>other NRC commitments to be retained for the life                                                                                                                                                                                                                                                                                        | operating<br>CFR, the<br>of the plant                                                         | license, th<br>FSAR, c                                                                            | e<br>or                         |  |  |
| Limiting Conditions for Operations   | Lowest functional capability or performance levels for safe operation of a nuclear facility.                                                                                                                                                                                                                                                                                                                                                  | of equipm                                                                                     | ent require                                                                                       | đ                               |  |  |
| Limiting Safety                      | Settings for automatic protective devices related to                                                                                                                                                                                                                                                                                                                                                                                          | those vari                                                                                    | able havin                                                                                        | g                               |  |  |

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|                                                             | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
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|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rev.                                                                                                                                                                                                     | 17 Draf                                                                                                                                                                                                                                                    |
|                                                             | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Date                                                                                                                                                                                                     | 11/8/93                                                                                                                                                                                                                                                    |
| FPL                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Page                                                                                                                                                                                                     | 19 of                                                                                                                                                                                                                                                      |
| 5.0 <b>DEFINITIONS</b> :                                    | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
| Lower Tier<br>Procurement                                   | Procurement by a Supplier from a subsupplier of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | items or se                                                                                                                                                                                              | rvices.                                                                                                                                                                                                                                                    |
| (3) Maintenance &<br>Modification<br>Procedures Malfunction | Written instructions defining the policies an<br>mechanical, electrical, and instrumentation and<br>nuclear power plant are kept in a condition of goo<br>they may satisfactorily perform their inten<br>procedures include those activities performe<br>contractor personnel to maintain repair or<br>equipment. Related activities are those actio<br>personnel to determine that a planned activity c<br>under the existing plant operating conditions, to<br>to be maintained in accordance with equipment co<br>assure that the equipment has been returned to no<br>the completion of the maintenance work into<br>functional acceptability. Procedures for thes<br>operating personnel are considered to be operating<br>be included in maintenance procedures. | d practice<br>l control s<br>d repair or<br>ided funct<br>ed by mais<br>modify s<br>ons taken l<br>an be perfo<br>authorize th<br>ontrol proce<br>ormal opera<br>cluding ve<br>e related a<br>ng procedu | s by which<br>ystems of a<br>efficiency so<br>ions. These<br>ions. These<br>intenance of<br>afety-related<br>by operating<br>ormed safely<br>requipmen<br>dures, and to<br>ting status a<br>rification of<br>activities by<br>res, but may<br>ation, which |
| (1) Manufacturer                                            | causes the performance of an item to deviate fro<br>item's specification. It is a condition that re-<br>maintenance personnel to return the item to a satis<br>One who constructs any class of component, n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | equires the factory con                                                                                                                                                                                  | services of<br>dition.                                                                                                                                                                                                                                     |
|                                                             | meet prescribed design requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
| Master Drawing Index                                        | A list which identifies current or archived draw<br>revisions and the plant to which the drawing appli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ving numb<br>ies.                                                                                                                                                                                        | ers, drawing                                                                                                                                                                                                                                               |
| (1) Material                                                | A substance or combination of substances form<br>pieces, and equipment items. (Intended to inclu<br>casting, liquids, formed steel shapes, aggregates,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ing compo<br>ude such as<br>and cemen                                                                                                                                                                    | nents, parts<br>machinery<br>ts.)                                                                                                                                                                                                                          |
| May                                                         | It is used to denote permission, neither recommendation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | a require                                                                                                                                                                                                | nent nor a                                                                                                                                                                                                                                                 |
| Measuring & Test<br>Equipment (M&TE)                        | Devices or systems used to calibrate, measure,<br>control in order to acquire research, development,<br>to determine compliance with design specification<br>requirements. M&TE does not include permanent<br>equipment or test equipment used for preliminary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | gauge, test<br>test or oper<br>ions, or oth<br>ently-install<br>checks wh                                                                                                                                | , inspect, or<br>rational data<br>ter technical<br>ed operating<br>ere accuracy                                                                                                                                                                            |

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|                                                  | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                       |                                                                          |                                                                                    |                                 |
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|                                                  | GLOSSARY                                                                                                                                                                                                                                                                                                                                                       | Date                                                                     | 11/8/9                                                                             | 3                               |
| FPL                                              | · · ·                                                                                                                                                                                                                                                                                                                                                          | Page                                                                     | 20 of                                                                              | 42                              |
| 5.0 <b>DEFINITIONS</b> :                         | (Cont'd)                                                                                                                                                                                                                                                                                                                                                       |                                                                          |                                                                                    |                                 |
| Mechanical Cleaning                              | A method in which contaminant removal is ac<br>mechanical means, including wiping, abrasive<br>grinding, sanding, chipping, etc.                                                                                                                                                                                                                               | complishe<br>e blasting                                                  | ed solely b<br>g, brushin                                                          | y<br>g,                         |
| Mechanical Items                                 | Parts, components, or systems that function p<br>retaining, mass moving, or heat exchange pur<br>mechanical items are rotating equipment (moto<br>handling equipment (cranes, hoists, conveyors),<br>valves, hangers), fuel handling systems, and waste                                                                                                        | rimarily<br>poses. E<br>ors, pump<br>piping sy<br>effluent s             | for pressur<br>Examples of<br>s, blowers<br>stems (pip<br>systems.                 | re<br>of<br>),<br>e,            |
| (1) Modifications                                | A planned change in plant design or operation<br>accordance with the requirements and limitations<br>standards, specifications, licenses and predetermine                                                                                                                                                                                                      | and acco<br>s of applied<br>safety r                                     | omplished i<br>cable code<br>estrictions.                                          | in<br>s,                        |
| Module                                           | Any assembly of interconnected components<br>identifiable device, instrument, or piece of equipm<br>disconnected, removed as a unit, and replaced<br>definable performance characteristics which perm<br>unit. A module could be a card or other subassem<br>provided it meets the requirements of this definition                                             | which co<br>ent. A m<br>with a sp<br>it it to be<br>ubly of a l<br>i.    | onstitutes a<br>odule can b<br>are. It ha<br>tested as<br>larger devic             | in<br>xe<br>as<br>a<br>xe       |
| National Standards                               | Standard practices, codes, and specifications develo<br>the National Institute of Standards and Technology<br>National Standards Institute (ANSI), the America<br>and Materials (ASTM), the American Society of I<br>(ASME), the American Society for Nondestructive<br>Institute of Electrical and Electronics Engineer<br>institutions of similar character. | oped and j<br>(NIST), t<br>in Society<br>Mechanic<br>Testing<br>s (IEEE) | published b<br>he America<br>for Testin<br>al Engineer<br>(ASNT), th<br>, and othe | iy<br>in<br>g<br>rs<br>ie<br>er |
| <ul><li>(1) Nonconformance</li><li>(4)</li></ul> | A deficiency in characteristic, process, service, doc<br>dure which renders the quality of an item unaccept<br>Examples of nonconformance include (but are no<br>defects, test failures, incorrect or inadequate docun<br>from prescribed processing, inspection, or test proc                                                                                 | umentatio<br>able or in<br>ot limited<br>mentation,<br>cedures.          | n, or proce<br>determinate<br>to) physics<br>or deviatio                           | -<br>e.<br>al<br>on             |
| Non-Permanent Record                             | Records which are required by the NRC facility<br>NRC construction permit, applicable parts of 10<br>other NRC commitments to be retained for periods<br>life of the plant.                                                                                                                                                                                    | operating<br>CFR, th<br>s of time                                        | license, th<br>e FSAR, c<br>less than th                                           | ie<br>Dr<br>ie                  |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                |                                                                          |                                                                                    |                                 |

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|                                            | GLOSSARY Date                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          | Date 11/8/9                                                                       |                            |
| FPL                                        |                                                                                                                                                                                                                                                                                                                                                                                  | Page                                                                                     | 21 of                                                                             | 4                          |
| 5.0 <b>DEFINITIONS</b> :                   | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          | *                                                                                 |                            |
| Not QL-1, QL-2,<br>-or QL-3-Classification | " <u>Not—QL-1,—QL-2,—or—QL-3"—Procurement</u><br>classification-may-be-used-in-lieu of the above-c<br>following condition exists:                                                                                                                                                                                                                                                | <u>Classificati</u><br>lassification                                                     | <u>on</u> :Th<br>16-whon-tl                                                       | is<br>h <del>o</del>       |
| •                                          | The item or service is not for use in or in conjuncti<br>system or quality related system, and does not<br>classifications of QL-1, QL-2, or QL-3.                                                                                                                                                                                                                               | ion-with-a-so<br>-meet-the-p                                                             | <del>afety-relate</del><br>procureme                                              | <del>sd</del><br>nt        |
|                                            | "Not QL-1, QL-2, or QL-3"-items are not subject t                                                                                                                                                                                                                                                                                                                                | 0-10CFR-2                                                                                | 1.                                                                                |                            |
| Nuclear Plant<br>Drawing Index             | A list of all drawings for a nuclear power plant whi<br>plant operation, maintenance or design.                                                                                                                                                                                                                                                                                  | ich are requ                                                                             | ired for                                                                          |                            |
| (3) Nuclear Power<br>Plant                 | Any plant using a nuclear reactor and associated e<br>produce electric power, and includes those str<br>components required to provide reasonable assura<br>operated without undue risk to the health and safety                                                                                                                                                                 | equipment n<br>ructures, sy<br>ance the fac<br>y of people.                              | ecessary a<br>stems an<br>cility can b                                            | to<br>id<br>be             |
| Nuclear Reactor                            | An apparatus, other than an atomic weapon, design nuclear fission in a self-supporting chain reaction.                                                                                                                                                                                                                                                                           | ned and use                                                                              | d to sustai                                                                       | in                         |
| Nuclear Steam<br>Supply System (NSSS)      | That portion of the nuclear generating plant which<br>nuclear heat. It includes the reactor, its control<br>and steam generation systems, fuel handling equip<br>cooling system; and other safeguards, associated<br>instrumentation, spent fuel handling, and radio<br>system.                                                                                                  | h provides<br>systems, m<br>oment, emen<br>d electrical<br>active was                    | steam from<br>ain coolar<br>gency con<br>equipmen<br>te disposa                   | m<br>nt<br>re<br>it,<br>al |
| (1) Objective<br>(4) Evidence              | Any statement of fact, information, or record,<br>qualitative, pertaining to the quality of an item<br>observations, measurements, or tests which can be                                                                                                                                                                                                                         | either qua<br>or service<br>verified.                                                    | ntitative c<br>based o                                                            | or<br>n                    |
| (3) Off-Normal Condition                   | - · ·                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |                                                                                   |                            |
| Procedures                                 | Written instructions, whether included in syste<br>separate procedures, that specify operator action<br>operating variable to its normal controlled value we<br>range or to restore normal operating conditions fol<br>Such actions are invoked following an operator of<br>of a condition that, if not corrected, could degen<br>requiring action under an emergency procedure. | em proced<br>ions for re<br>hen it depa<br>llowing a pe<br>bservation o<br>herate into a | ures or a<br>storing a<br>rts from it<br>erturbation<br>or an alarr<br>a conditio | is<br>n<br>ts<br>n<br>n    |

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|                            | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                     |                                                                                                        |                                          |             |
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|                            | GLOSSARY                                                                                                                                                                                                                                     | Date                                                                                                   | 11/8/9                                   | 3           |
| <u> </u>                   | ·                                                                                                                                                                                                                                            | Page                                                                                                   | 22 of                                    | 42          |
| 5.0 <b>DEFINITIONS</b> :   | (Cont'd)                                                                                                                                                                                                                                     |                                                                                                        |                                          |             |
| On-Site Services           | Services provided by a company under contract to specific nuclear plant site task.                                                                                                                                                           | to FPL to                                                                                              | o perform                                | a           |
| Operating Experience       | Accumulation of verifiable service data for condition for the equipment to be qualified.                                                                                                                                                     | ns equiva                                                                                              | lent to thos                             | se          |
| Operating Organization     | On-site personnel concerned with day-today operatic certain technical services.                                                                                                                                                              | on, maint                                                                                              | enance, an                               | d           |
| 3) Operating<br>Procedures | Written instructions defining the normal method,<br>operation of a nuclear power plant, a plant sys<br>processes, including actions to be taken by ope<br>removal from and return to service of equipment on<br>to be or has been performed. | od, means and limits of<br>system or systems, or<br>operating personnel for<br>on which maintenance is |                                          |             |
| Operational Tests          | Tests that are performed during the operation of continued satisfactory performance of safety related and components.                                                                                                                        | the plai<br>structur                                                                                   | nt to verif<br>es, systems               | y<br>s,     |
| Operations                 | Includes those operations activities which occur from Operating license to Decommissioning of the Plant.                                                                                                                                     | n the iss                                                                                              | uance of th                              | e           |
| Driginal Drawing           | The drawing used by JPN as the master copy.                                                                                                                                                                                                  |                                                                                                        |                                          |             |
| (1) Owner                  | The person, group, company or corporation who we the facility or installation under construction.                                                                                                                                            | ill have o                                                                                             | r has title t                            | 0           |
| (3) Owner<br>Organization  | The organization, including the on-site operating o<br>overall legal, financial, and technical responsibility<br>one or more nuclear power plants.                                                                                           | rganizati<br>for the c                                                                                 | on, that ha<br>operation o               | s<br>of     |
| (1) Package                | A wrapping or container, including its contents of ma                                                                                                                                                                                        | aterial or                                                                                             | equipment.                               |             |
| (1) Packaged<br>Unit       | An assembly of items and parts which can be disasse<br>destroying the integrity of the individual parts.                                                                                                                                     | mbled wi                                                                                               | thout                                    |             |
| (1) Part                   | An item which has work performed on it and which<br>becomes part of a component before completion of the                                                                                                                                     | ch is atta<br>le compo                                                                                 | ched to and nent.                        | d           |
| Period of Manufacture      | The period which begins with the design of the equi<br>ends when equipment has been prepared for ship<br>design, procurement of materials, shop fabrications<br>testing and preparation for shipment.                                        | pment or<br>ment; it<br>and asse                                                                       | system and<br>will include<br>mbly, shop | d<br>e<br>p |

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|                                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |                                                                                                      |                            |
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| s                                               | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date                                                                                                  | 11/8/9                                                                                               | 3                          |
| FPL                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page                                                                                                  | 23 of                                                                                                | 4                          |
| 5.0 <b>DEFINITIONS</b> :                        | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       | Ŀ                                                                                                    | ,                          |
| Physical Walk-Through                           | Visual check for damage, cleanness and weatherpr<br>engineering document (including isometrics and<br>and to verify the configuration and condition of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | oofing, us<br>P&ID's)<br>system ar                                                                    | ing the late<br>for guidance<br>and systems.                                                         | st                         |
| (1) Plant                                       | The equipment, piping, structures, buildings and j<br>an installation or facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | property th                                                                                           | nat compris                                                                                          | se                         |
| Plant Change Design<br>Package                  | The file containing the appropriate design cor<br>Change/Modification PC/M Form, or Control Plan<br>and all pertinent documentation to support the plan<br>Authorization Request, the Safety Evaluation,<br>reviews, design material, acceptance tests and pro<br>correspondence or material applicable to the chan<br>assembled as the various tasks required by this pro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ntrol docu<br>at Work Or<br>at changes<br>all requ<br>ocedures,<br>age). <del>Thi</del><br>cedure-are | ment (Plander CPWC)<br>(ie., Projective<br>(ired writted<br>and relevant<br>(S-package)<br>performed | nt<br>))<br>ct<br>:n<br>is |
| (5) Plant Change or<br>Modification (PC/M)      | Changes or modifications to plant systems or eq<br>modifications affecting nuclear safety related s<br>impacting the environment are considered to be sa<br>not include replacements of parts/components which<br>been demonstrated and documented as equivalent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | uipment.<br>systems o<br>fety relate<br>ch are iden                                                   | Changes or<br>r adversel<br>d. This door<br>tical or hav                                             | or<br>y<br>ss              |
| Plant Change/<br>Modification<br>Implementation | Completion of construction/installation affecting pla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ant drawin                                                                                            | gs.                                                                                                  |                            |
| Plant Protection System                         | Systems provided to act, if needed, to avoid exce<br>anticipated operational transients and to activate a<br>safety features as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | eding a sa<br>ppropriate                                                                              | ifety limit i<br>engineere                                                                           | n<br>d                     |
| Precision                                       | The degree of resolution of a measurement; for example, and the second s | mple, read                                                                                            | ability.                                                                                             |                            |
| Preconstruction Phase                           | That period of time prior-to the commencement of<br>activities such as planning, financing, designing<br>satisfying of local, state, and Federal Gove<br>regulations pertaining to the securing of con<br>accomplished.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | of-constru<br>3, procuri<br>ornmental<br>struction-                                                   | <del>ction, whe<br/>ng, and th<br/>codes an<br/>permits ar</del>                                     | ቀ<br>ተ<br>ቀ<br>ት<br>ት<br>ት |
| Preliminary Design<br>Review                    | Assesses the technical adequacy of the selected de<br>the design compatibility with the functionar<br>requirements of the Software Requirements Spec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | sign appro<br>al and pe<br>cification                                                                 | each; check<br>erformanc<br>(SRS): an                                                                | s<br>e                     |

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|                            |                                                 | GLOSSARY                                                                                                                                                                                                                                          | Date                                             | 11/8/9                                                  | 3                |
|                            | FPL                                             | •                                                                                                                                                                                                                                                 | Page                                             | 24 of                                                   | 42               |
| _                          | 5.0 <b>DEFINITIONS</b> :                        | (Cont'd)                                                                                                                                                                                                                                          |                                                  |                                                         |                  |
|                            | Preliminary Safety<br>Analysis Report<br>(PSAR) | The detailed safety evaluation prepared for the U.S.<br>Commission prior to issuance of the site construction<br>delineates design, normal and emergency operation<br>predicted consequences of such accidents, and the                           | Nuclear<br>n permit.<br>, potentia<br>means j    | Regulator<br>The PSA<br>al accident<br>proposed 1       | ry<br>R<br>s,    |
|                            | Preoperational Testing                          | The tests that are conducted prior to fuel loading capability of structures, systems, and components to                                                                                                                                           | to demo                                          | n acceptabl<br>onstrate th<br>fety-relate               | le<br>ne<br>vd   |
|                            | Principal Auditor                               | See "Lead Auditor".                                                                                                                                                                                                                               |                                                  |                                                         |                  |
|                            | Principal Load<br>Carrying Members              | Those components of a system whose structura maintained to insure a safe operation.                                                                                                                                                               | l integrit                                       | ty must b                                               | ۰<br>e           |
|                            | Principal<br>Structural Weld                    | Those welds which join or affect the integrity of primembers.                                                                                                                                                                                     | incipal lo                                       | ad carryin                                              | g                |
|                            | (1) Procedure                                   | A document that specifies or describes how an performed. It may include methods to be employed materials to be used and a sequence of operations.                                                                                                 | n activit<br>d, the eq                           | y is to b<br>juipment c                                 | e<br>or          |
|                            | Procurement<br>Agent (PA)                       | See "Purchasing Agent"                                                                                                                                                                                                                            | •                                                |                                                         |                  |
|                            | Procurement<br>Classification (PC-1)            | PC-1 items and services are subject to 10CFR 21 by                                                                                                                                                                                                | the suppl                                        | ier.                                                    | •                |
|                            |                                                 | This classification shall be used when one or mo conditions exist:                                                                                                                                                                                | re of the                                        | e following                                             | g                |
| 9 (Non - Stocked) Rev.1/89 |                                                 | a. The item or service is for use in or in conjur-<br>related system and the item or service does not n<br>a commercial grade item and the work that is<br>safety related and any portion of the work is to<br>the supplier's Nuclear QA Program. | nction wi<br>neet the d<br>to be pe<br>be perfor | ith a safety<br>lefinition o<br>erformed i<br>rmed unde | y<br>f<br>s<br>r |
| Form 271                   |                                                 |                                                                                                                                                                                                                                                   |                                                  |                                                         |                  |

|                                                            | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                         | ,                                                          | Rev.17 Draft BDate11/8/93Page25 ofPage25 of25 of4onent as defined in<br>ple, nondestructiveor testing (IST)1 by the supplier.1 by the supplier.s for use in or in<br>the definition of aby the supplier.ce that is subject to<br>cial requirements<br>ervices defined asy the supplier. |                              |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                                                            |                                                                                                                                                                                                                                                                                                                  | Rev.                                                       | 17 Dra                                                                                                                                                                                                                                                                                  | ft I                         |
|                                                            | GLOSSARY                                                                                                                                                                                                                                                                                                         |                                                            | 11/8/9                                                                                                                                                                                                                                                                                  | 3                            |
| FPL                                                        | •                                                                                                                                                                                                                                                                                                                | Page                                                       | 25 of                                                                                                                                                                                                                                                                                   | 4                            |
| 5.0 <b>DEFINITIONS</b> :                                   | (Cont'd)                                                                                                                                                                                                                                                                                                         | t                                                          | -                                                                                                                                                                                                                                                                                       |                              |
|                                                            | b. For training, when associated with a basic co<br>paragraph 21.3(a)(1) of 10CFR 21 (for ex-<br>examination training, in-service inspection (<br>training).                                                                                                                                                     | mponent a<br>ample, no<br>(ISI) or to                      | as defined<br>ondestructive<br>sting (IST                                                                                                                                                                                                                                               | in<br>/e<br>[ <sup>^</sup> ) |
| Procurement<br>Classification (PC-2)<br>- Commercial Grade | PC-2 items and services are not subject to 10CF                                                                                                                                                                                                                                                                  | R21 by 1                                                   | the supplie                                                                                                                                                                                                                                                                             | r.                           |
| -                                                          | This classification should be used when the iter<br>conjunction with a safety related system and med<br>commercial grade item.                                                                                                                                                                                   | n is for a<br>ets the de                                   | use in or i<br>finition of                                                                                                                                                                                                                                                              | in<br>a                      |
| Procurement<br>Classification (PC-3)<br>Augmented Quality  | PC-3 items and services are not subject to 10CFR 2                                                                                                                                                                                                                                                               | 21 by the s                                                | supplier.                                                                                                                                                                                                                                                                               |                              |
|                                                            | This classification may be applied to any item or se<br>non-safety related regulatory requirements or<br>imposed by FPL, which include those items and<br>quality related.                                                                                                                                       | rvice that<br>special re<br>d service:                     | is subject t<br>equirements<br>defined a                                                                                                                                                                                                                                                | to<br>ts<br>1S               |
|                                                            | NOTE: Basic components cannot be procured PC-                                                                                                                                                                                                                                                                    | 3.                                                         | -                                                                                                                                                                                                                                                                                       |                              |
| Procurement<br>Classification (PC-4)<br>Commercial         | PC-4 items and services are not subject to 10CFR2<br>(For safety related services under this classific<br>10CFR21 responsibility.)                                                                                                                                                                               | 1 by the sication, FI                                      | upplier.<br>PL assume                                                                                                                                                                                                                                                                   | s                            |
|                                                            | This classification may be used when one or more of the following conditions are met:                                                                                                                                                                                                                            |                                                            |                                                                                                                                                                                                                                                                                         | g                            |
|                                                            | a. The item or service is not safety related nor augmented quality.                                                                                                                                                                                                                                              |                                                            |                                                                                                                                                                                                                                                                                         | ,                            |
| (2) Procurement                                            | b. The service to be provided is safety related to to the supplier and all of the work is perform Program.                                                                                                                                                                                                       | FPL, but<br>ed under                                       | commercia<br>the FPL Qa                                                                                                                                                                                                                                                                 | al<br>A                      |
| (4) Documents                                              | Contractually binding documents, including such de<br>letters of intent, work orders, purchase orders o<br>acceptances which authorize the seller to perform<br>equipment, material or facilities on behalf of the p<br>purposes, procurement requisitions are considocuments in the context of this definition. | ocuments<br>r proposa<br>m service<br>urchaser.<br>sidered | as contracta<br>als and the<br>s or suppl<br>For contro<br>procurement                                                                                                                                                                                                                  | s,<br>ir<br>y<br>ol          |



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| 5.0 DI                  | EPL<br>EFINITIONS: | GLOSSARY<br>(Cont'd)                                                                                                                                                                                                                                                                                                        | Rev.<br>Date<br>Page                                                                       | 17 Dra<br>11/8/9                                                                 | 93                            |
|-------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------|
| 5.0 DI                  | EPL<br>EFINITIONS: | GLOSSARY<br>(Cont'd)                                                                                                                                                                                                                                                                                                        | Page                                                                                       | 11/8/9                                                                           | 93                            |
| 5.0 D                   | EFINITIONS:        | (Cont'd)                                                                                                                                                                                                                                                                                                                    | raye                                                                                       | 76 04                                                                            |                               |
| Procurem                |                    |                                                                                                                                                                                                                                                                                                                             |                                                                                            |                                                                                  |                               |
|                         | ent<br>on          | Request and authorization for purchase of item<br>procurement requisition consists of a Form 1 RPA<br>or Contract Change Order (CCO), and any 1<br>thereto.                                                                                                                                                                 | ns and/or a<br>A, Form 2 d<br>referenced                                                   | services.<br>RPA (BAR<br>attachmer                                               | A<br>t),<br>its               |
| Program I               | Deficiencies       | The failure to develop, document or implement effective element of the quality assurance program.                                                                                                                                                                                                                           | fectively ar                                                                               | ny applicab                                                                      | ole                           |
| Program A               | Audits .           | Performed to verify that a program is in effect and followed to implement<br>the FPL QA Program and to satisfy plant specific audit requirements.                                                                                                                                                                           |                                                                                            |                                                                                  |                               |
| (1) Projec              | t                  | A planned series of activities including all of th provide, utilize, and maintain a facility or a portior                                                                                                                                                                                                                   | ne actions                                                                                 | necessary                                                                        | to                            |
| Protection              | System             | The electrical and mechanical devices and circu<br>actuation device input terminals) involved in ge<br>associated with the protective function. These sig<br>actuate reactor trip and that, in the event of a se<br>actuate engineered safeguards including safety in<br>containment spray, containment isolation, and main | uitry (from<br>enerating the<br>gnals inclue<br>erious reac<br>njection, re<br>n steam isc | h sensors<br>hose signa<br>de those th<br>tor accider<br>ecirculatio<br>blation. | to<br>Ils<br>iat<br>it,<br>n, |
| (1) Purcha              | iser               | The organization or organizations responsib<br>administration of a contract, subcontract, or purch                                                                                                                                                                                                                          | ble for is:<br>ase order.                                                                  | suance ar                                                                        | ıd                            |
| Purchasing              | g Agent            | The FPL Representative designated to act in FPL procurement.                                                                                                                                                                                                                                                                | 's behalf c                                                                                | on a specif                                                                      | īc                            |
| QAPRC<br>Represent      | ative              | An individual designated by the head of each depar<br>who is the prime interface for coordination of quali<br>their department, with the QA Department, or w<br>The Quality Manager - Juno Beach or designee i<br>group.                                                                                                    | tment or or<br>ity related r<br>vith other of<br>is the Chai                               | rganization<br>natter with<br>department<br>rman of th                           | in<br>ts.<br>is               |
| QAPRC N                 | lecting            | Periodic meetings which are conducted by the Q which all QAPRC members are invited.                                                                                                                                                                                                                                         | APRC Ch                                                                                    | airperson                                                                        | to                            |
| (2) Qualifi<br>(Personn | cation<br>nel)     | The characteristics or abilities gained through tra<br>both as measured against established requirement<br>tests that qualify an individual to perform a require                                                                                                                                                            | ining or ex<br>ts such as<br>d function.                                                   | xperience of<br>standards of                                                     | or<br>or                      |

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                 | <u>,                                     </u>                        |                                                                                  |                       |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------|
|                                                     | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                        |                                                                      |                                                                                  |                       |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                 | Rev.                                                                 | 17 Drai                                                                          | ft B                  |
|                                                     | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                        | Date                                                                 | 11/8/93                                                                          |                       |
| FPL                                                 |                                                                                                                                                                                                                                                                                                                                                                                 | Page                                                                 | 27 of                                                                            | 42                    |
| 5.0 <b>DEFINITIONS</b> :                            | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |                                                                                  |                       |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |                                                                                  | •                     |
| Qualification Tests                                 | Tests performed to qualify the basic material sour<br>These tests are mandatory unless current docum<br>available to establish complete confidence in conform<br>requirements.                                                                                                                                                                                                  | ce or m<br>entary te<br>hance to s                                   | anufacture<br>est data ar<br>specificatio                                        | er.<br>Te<br>n        |
| Qualified Life                                      | The period of time for which satisfactory p<br>demonstrated for a specific set of service conditions.<br>particular equipment or item may be changed dur<br>where justified.                                                                                                                                                                                                    | erforma<br>The qua<br>ing its i                                      | nce can b<br>lified life o<br>nstalled lif                                       | e<br>of<br>če         |
| (1) Qualified Party                                 | A person or organization competent and recognized a perform certain functions.                                                                                                                                                                                                                                                                                                  | as know                                                              | ledgeable t                                                                      | 0                     |
| (1) Qualified Procedure                             | A procedure which incorporates all applicable comanufacturer's parameters, and engineering specific proven adequate for its intended purpose.                                                                                                                                                                                                                                   | odes and<br>cations a                                                | l standards<br>nd has been                                                       | s,<br>n               |
| Qualitative Acceptance<br>Criteria                  | Those acceptance criteria pertaining to quality, kind c                                                                                                                                                                                                                                                                                                                         | or charact                                                           | er.                                                                              |                       |
| Quality                                             | That aspect of an item, operation, process, or service specified requirements, codes, or standards.                                                                                                                                                                                                                                                                             | e which o                                                            | conforms t                                                                       | 0                     |
| Quality Achievement<br>Functions                    | Designing, purchasing, fabricating, handling, cleaning, directing and installing.                                                                                                                                                                                                                                                                                               | shippin                                                              | g, storing                                                                       | ,<br>,                |
| <ul><li>(2) Quality</li><li>(3) Assurance</li></ul> | All those planned and systematic actions necessary<br>confidence that a structure, system or compo-<br>satisfactorily in service. Quality Assurance includes                                                                                                                                                                                                                    | to provi<br>onent w<br>quality co                                    | de adequate<br>ill perform<br>ontrol.                                            | e                     |
| QA Approved Suppliers<br>List (QA-ASL)              | The QA-ASL identifies the name, locations, scope, q<br>and limitations of products of firms approved by Q<br>safety-related and commercial grade items or services                                                                                                                                                                                                              | uality ap<br>A supply                                                | proval leve<br>ving nuclea                                                       | 2]<br>r -             |
| Quality Assurance<br>Indoctrination                 | Those instruction periods used to describe the FPL<br>Program including the administrative controls; licens<br>the Nuclear Regulatory Commission with 10CFR<br>overall company policies; FPL Topical Quality A<br>general description of the quality instructions<br>Quality Procedures which establish the program an<br>within FPL which have responsibilities in the program | Quality<br>ing com<br>O Appe<br>ssurance<br>and p<br>ad the or<br>n. | Assurance<br>mitments to<br>ndix B; the<br>Report; a<br>rocedures<br>ganizations | e<br>e<br>a<br>s<br>s |

|                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                        | a<br>                                                                  |                                         |  |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------|--|
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rev.                                                                                                                                                                                                                                                   | Rev. 17 Draft I                                                        |                                         |  |
|                                 | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Date                                                                                                                                                                                                                                                   | 11/8/9                                                                 | 3                                       |  |
| FPL                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Page                                                                                                                                                                                                                                                   | 28 of                                                                  | 42                                      |  |
| 5.0 <b>DEFINITIONS</b> :        | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ų                                                                                                                                                                                                                                                      |                                                                        |                                         |  |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                        |                                                                        |                                         |  |
| Quality Assurance<br>Program    | The policies and procedures for activities aff<br>activities established in documented form to meet<br>and the implementation of those policies and proce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ecting qui<br>specified re<br>dures.                                                                                                                                                                                                                   | ality <del>relate</del><br>equirement                                  | <del>s;</del>                           |  |
| Quality Assurance<br>Records    | Those records which furnish documentary evidenties and of activities affecting quality.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ence of the                                                                                                                                                                                                                                            | e quality o                                                            | ,<br>of                                 |  |
| (2) Quality Control             | Those quality assurance actions related to the phy<br>material, structure, component or system, whic<br>control the quality of the material, structure, co<br>predetermined requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | hose quality assurance actions related to the physical characteristics or<br>naterial, structure, component or system, which provide a means to<br>ontrol the quality of the material, structure, component or system to<br>redetermined requirements. |                                                                        |                                         |  |
| Quality Control<br>Notice (QCN) | Specific quality requirements which may be u purchases. Each QCN identifies a partic documentation requirement which may be ap documents. Each QCN is represented by a uniq number. Copies of the QCNs are available from Management.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | sed for nu<br>cular cert<br>pplied to p<br>ue alphanu<br>rom Nucles                                                                                                                                                                                    | iclear plan<br>ification of<br>procurement<br>meric code<br>ar Materia | nt<br>or<br>nt<br>es<br>Is              |  |
| Quality-Level-1                 | QL-1-items and services are subject to 10CFR-Part                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21 require                                                                                                                                                                                                                                             | ments.                                                                 |                                         |  |
|                                 | <u>QL-1-Procurement-Classification</u><br>This-classification-shall-be-used-when-one-or-r<br>conditions exist:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>nore-of-th</del>                                                                                                                                                                                                                                  | e-followin                                                             | £                                       |  |
|                                 | 1. The item is for use in or in conjunction with<br>and-the item or service does not meet the defi-<br>grade item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | a-safety rel<br>nition-of-a-                                                                                                                                                                                                                           | ated-syster<br>commercia                                               | <del>가</del><br>#                       |  |
|                                 | 2. It-is desired to upgrade-an-item-from QL 2,-3<br>or QL 3 for-stock-items that are-known to<br>classification applications,-including QL-1, e.<br>increased material control considerations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>, or Not (</del><br>)-have-mu<br>g.,-for-redu                                                                                                                                                                                                     | QL-1, QL-2<br>htiple-safet<br>sced-cost-c                              | <u></u><br><del> y</del><br>₩<br>•<br>• |  |
| ,                               | 3. For training, when associated with a basic constraining basic and the second state of the second state | omponent-a<br>cample,-noi<br>(ISI)-or-te                                                                                                                                                                                                               | s-defined-i<br>ndestructiv<br>osting-(IST                              | ₽<br>₽<br>}                             |  |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | •                                                                                                                                                                                                                                                      |                                                                        | -                                       |  |
| ¢                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                        | -                                                                      |                                         |  |

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|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Data 11 Drait                                                                                                                        |  |  |
|                                                  | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Bate . 11/8/93                                                                                                                       |  |  |
|                                                  | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                      |  |  |
| 5.0 <u>DEFINITIONS</u> .                         | 4. The item is ASME Section III or Section XI.<br>Quality Related items and services may b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e-procured QL-1 with                                                                                                                 |  |  |
|                                                  | 10CFR21-not-required-when-engineering s<br>class-is-not-safety-related-and-the-purche<br>vendor's-10CFR-50 Appendix-B-program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | pecifies-that-the-safety<br>ise-order-specifies-the                                                                                  |  |  |
| <del>Quality Lovel—2—</del><br><del>(QL-2)</del> | QL-2 items are not subject to 10CFR21-by the ven<br>Basic components that cannot be procured QL<br>acceptable program and/or the vendor will not acc<br>is no alternate source, may be procured QL-2.<br>Grade Dedication Package process even though-<br>the definition of commercial grade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dor<br>-1-due-to-a-lack-of-an-<br>ept-10CFR21-and-there-<br>using-the-Commercial-<br>the-item-does-not-meet-                         |  |  |
|                                                  | <u>QL-2-Procurement-Classification</u> :— This-classif<br>when one of the following conditions exist:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ication should-be-used                                                                                                               |  |  |
|                                                  | 1. The item is for use in or in conjunction with<br>and meets the definition of a comme<br>documentation (e.g., mill test reports, certi<br>chemical or physical test reports, heat treat-<br>inspection, etc.) is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -a safety related-system<br>rcial-grade-item-and<br>fication of compliance,<br>certification, reports of                             |  |  |
|                                                  | 2. The item is for use in or in conjunction with<br>and meets the definition of a commercia<br>functional-or-material-characteristics of the<br>upon-receipt-inspection or post-installation-ter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -a safety related system<br>al-grade-item-and-the<br>item-cannot-be-verified<br>sting.                                               |  |  |
|                                                  | 3. The RPA Originator desires to upgr<br>classification from QL-3 or Not QL-1, QL-<br>gain an FPL Quality Assurance audit and ap<br>program and a QC receiving inspection o<br>definition of commercial grade item or to ass<br>approved by QA are used for the purchase.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ade-the-procurement<br>2, or QL-3-in order to<br>proval-of-the-vendor's<br>f-an-item-meeting-the<br>sure-that-only-suppliers         |  |  |
| Quality-Level—3—                                 | QL-3 items are not subject to 10CFR-Part-21-by th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <del>e vendor.</del>                                                                                                                 |  |  |
|                                                  | (OL-3) Procurement-Classification:-This-classification - This-classification - This-clas | tion-may be used-when                                                                                                                |  |  |
|                                                  | 1. The item is for use in, or in conjunction with,<br>and-meets-the-definition-of-a-commercial<br>functional-or material-characteristics of the ite<br>receipt by inspection or test. Therefore, if the<br>cannot be completely dedicated by inspection<br>after receipt the item cannot be procured OL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - a-safety-related-system<br>grade-item.";- and-the<br>em can-be verified-after<br>acceptance-of-the-item<br>and/or-test-of-the-item |  |  |

|                                            | ·····                                                                                                                                                                                                                                                                                             | Rev.                                                       | 17 Dm                                 | fr                  |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------|---------------------|
|                                            |                                                                                                                                                                                                                                                                                                   |                                                            |                                       |                     |
|                                            | GLOSSAR I                                                                                                                                                                                                                                                                                         | Page                                                       | 30 of                                 | <u></u>             |
| 5.0 DEFINITIONS:                           | (Cont'd)                                                                                                                                                                                                                                                                                          | ,                                                          |                                       |                     |
| •                                          | 2. Fire-protection components and parts                                                                                                                                                                                                                                                           | -                                                          |                                       |                     |
|                                            | 3. It is desired to upgrade the item from Not Q obtain a Quality Control receiving inspection.                                                                                                                                                                                                    | <del>L-1, QL-2</del> ,                                     | <del>, or QL 3</del>                  | to                  |
|                                            | -NOTE: Documentation, if-requested, is-for-con<br>only; it may not be used as part of the acc                                                                                                                                                                                                     | <del>amercial co</del><br><del>eptance.</del>              | nsideration                           | <del>15</del>       |
|                                            | -4. On site safety related services performed und<br>where Quality-Control-inspection/-surveillance                                                                                                                                                                                               | <del>ler-FPL's-(</del><br><del>5 is require</del>          | <del>QA Progra</del><br><del>d.</del> | m                   |
|                                            | 5. Basic-components-that- <u>cannot</u> -be-procured (<br>lack-of-an-acceptable-program, and/or the ver<br>CFR-21-and-there is no alternate QL-1-source<br>using-the Commercial Grade Dedication Pack                                                                                             | QL-1-or-QI<br>ndor-will-n<br>may-bo-pro<br>ago.            | - 2 due-to<br>ot accept-1<br>cured QL | #<br>()<br>()<br>() |
| Quality Manager                            | This title refers, collectively or in part, to the Quality Manager Juno<br>Beach, Quality Manager St. Lucie or the Quality Manager Turkey Point.                                                                                                                                                  |                                                            |                                       |                     |
| Quality Related                            | Quality Related is defined as those items or related service<br>structures, systems or components which are not safety related and are<br>one or more of the following categories:                                                                                                                |                                                            |                                       | :s<br>in            |
| ,<br>, , , , , , , , , , , , , , , , , , , | <ol> <li>Equipment, components and structures desirequirements or whose failure could:         <ol> <li>(1) damage safety related equipment such that be prevented from performing its safety fut</li> <li>(2) result in releases exceeding the exposure a Specifications.</li> </ol> </li> </ol> | igned to m<br>at the equips<br>inction or<br>guidelines of | neet seism<br>ment woul<br>of Technic | ic<br>Id<br>al      |
|                                            | <ol> <li>Fire protection equipment</li> <li>(1) required to protect safety related equipment</li> </ol>                                                                                                                                                                                           | nt,                                                        |                                       |                     |
|                                            | or                                                                                                                                                                                                                                                                                                |                                                            |                                       |                     |
|                                            | (2) whose failure could result in water dama<br>equipment which could prevent the equip<br>its safety function,<br>or                                                                                                                                                                             | age to safe<br>ment from                                   | ty relate<br>performin                | d<br>g              |
|                                            | (3) required to maintain the integrity of a fin<br>protect safety related equipment.                                                                                                                                                                                                              | re barrier n                                               | ecessary t                            | O                   |
|                                            |                                                                                                                                                                                                                                                                                                   |                                                            |                                       |                     |
|                                      |                                                                                                                                                                                                             | Rev.                                   | 17 Dra                                 |  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--|
|                                      | GLOSSARY                                                                                                                                                                                                    | Date                                   | 11/8/93                                |  |
| FPL                                  |                                                                                                                                                                                                             | Page                                   | 31 of                                  |  |
| 5.0 DEFINITIONS:                     | (Cont'd)                                                                                                                                                                                                    |                                        |                                        |  |
|                                      | 3. A partial or total loss of function of a ra<br>system that could result in an accidental, unpl<br>release of radioactivity exceeding Technical Sp                                                        | dioactive<br>anned, or<br>becification | confinemer<br>uncontrolle<br>n limits. |  |
| •                                    | 4. Equipment whose failure under normal oper anticipated transient, results in:                                                                                                                             | ating cond                             | litions or a                           |  |
| *                                    | (1) exceeding a safety limit specified in the Te<br>or                                                                                                                                                      | chnical Sp                             | ecification                            |  |
|                                      | (2) initiation of a FSAR Design Basis Acciden                                                                                                                                                               | nt,                                    |                                        |  |
|                                      | (3) the reactor coolant system not being in a condition while operating or shutdown.                                                                                                                        | a controlle                            | ed or desig                            |  |
|                                      | 5. Instrumentation, equipment, components, or be operable by the Technical Specifications.                                                                                                                  | structures                             | s required t                           |  |
|                                      | 6. Instrumentation that is essential to preventing of radioactive material to the environment wiguidelines of Technical Specifications.                                                                     | or monito<br>hich could                | oring releas<br>l exceed th            |  |
| Quality Verification<br>Functions    | The act of examining, reviewing, inspecting, testin<br>or otherwise verifying and documenting that a an<br><b>quality</b> <del>quality related activity</del> has been performed<br>specified requirements. | g, checkin<br>activity<br>ed in acco   | ng, auditing<br>affectin<br>rdance wit |  |
| Reactor Coolant<br>Pressure Boundary | Reactor coolant pressure boundary means all those components such as pressure vessels, piping, pur are:                                                                                                     | e pressure<br>ps, and v                | e containin<br>alves whic              |  |
|                                      | 1. part of the reactor coolant system or,                                                                                                                                                                   |                                        |                                        |  |
|                                      | 2. connected to the reactor coolant system up to a all of the following:                                                                                                                                    | and includ                             | ling any and                           |  |
|                                      | <ol> <li>the outermost containment isolation values</li> <li>which penetrates primary reactor containment</li> </ol>                                                                                        | lve in sys<br>ent,                     | stem pipin                             |  |
|                                      | <ol> <li>the second of two valves normally closed<br/>operation in system piping which does<br/>reactor containment,</li> </ol>                                                                             | during not<br>not penetr               | rmal reacto<br>rate primar             |  |

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|                                 | QUALITY ASSURANCE MANUAL                                                                                                                                            |                                                                  |                                     | •             |
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|                                 |                                                                                                                                                                     | Rev.                                                             | 17 Dra                              | lft B         |
|                                 | GLOSSARY                                                                                                                                                            | Date                                                             | 11/8/9                              | 93            |
| <b>FPL</b>                      | •                                                                                                                                                                   | Page                                                             | 32 of                               | 42            |
| 5.0 <u>DEFINITIO</u>            | <u>DNS</u> : (Cont'd)                                                                                                                                               | z                                                                |                                     |               |
|                                 | 3) the reactor coolant system safety and r                                                                                                                          | elief valves.                                                    |                                     |               |
| (1) Receiving<br>(4)            | Taking delivery of an item at a designated locat                                                                                                                    | ion.                                                             |                                     |               |
| Redundant Equipmen<br>or System | An equipment or system that duplicates the ess<br>equipment or system to the extent that either<br>function regardless of the state of operation or f               | sential function<br>may perform th<br>ailure of the oth          | of anothe<br>ne require<br>ner.     | er<br>ed      |
| Records Center                  | An information center for the storage of duplica                                                                                                                    | te QA records.                                                   |                                     |               |
| Record Design                   | Current approved design configuration of a lipower plant.                                                                                                           | icensed operati                                                  | ng nuclea                           | ar            |
| Record Tracing                  | The master of the FPL approved record design.                                                                                                                       |                                                                  |                                     |               |
| Record Drawing                  | A copy of the record tracing.                                                                                                                                       | e.                                                               |                                     |               |
| Reference Standards             | Standards of prescribed accuracy (ie., primary<br>standards, where appropriate) that are used in<br>These standards establish the basic accuracy lim                | y, secondary and<br>in a calibration<br>wits for that prog       | d workin<br>progran<br>ram.         | ng<br>n.      |
| Regulatory Guides               | A continuing series of NRC publications that describe and-make available to the public, mether to the NRC Regulatory staff for implementing regulations.            | are issued <del>spon</del><br>nods which are<br>ng specific part | adically t<br>acceptabl<br>s of NR  | io<br>le<br>C |
| Reliability                     | The characteristics of an item expressed by the perform a required function under stated condit time.                                                               | he probability t<br>ions for a stated                            | hat it wi<br>I period c             | ll<br>of      |
| (1) Repair<br>(4)               | The process of restoring a nonconforming chara<br>such that the capability of an item to function<br>unimpaired, even though that item still may no<br>requirement. | cteristic to a cor<br>on reliably and<br>ot conform to th        | ndition<br>I safely i<br>he origina | is<br>al      |
| Reportable Event                | An event of the type defined in the Code of Fed<br>50.73) requiring submittal of a Licensee Eve<br>Nuclear Regulatory Commission (NRC).                             | eral Regulation<br>ent Report (LE                                | s (10 CFI<br>ER) to th              | R -<br>le     |
| Requirement                     | A mandatory action, denoted by the word "s<br>Guideline). Requirements are typically based of<br>but may be internally generated within the Com                     | hall" (See def<br>on statutes or re                              | finition c<br>gulations             | of<br>s,      |

|                                                                           |                                                                                                                                                                                                                                                                        |                                                                      |                                                                         | <u> </u>             |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------|
|                                                                           |                                                                                                                                                                                                                                                                        | Data                                                                 | 17 Dra                                                                  |                      |
|                                                                           | GLOSSARY                                                                                                                                                                                                                                                               | Date                                                                 | 11/8/9                                                                  | 3                    |
|                                                                           | (Contid)                                                                                                                                                                                                                                                               | Page                                                                 | 33 of                                                                   | 42                   |
| Requisition and<br>Purchasing Authorization<br>(RPA)                      | A document that is prepared to identify and obtain<br>for the purchase of items/services. The term RPA<br>the Form 1 & 2 RPA, the Contract Change Order<br>Action Report (BAR). Form 1 is intended for non<br>services, and is usually initiated for the requisition   | managem<br>includes<br>(CCO), au<br>-inventorio                      | ent approva<br>revisions o<br>nd the Buyo<br>ed items an<br>service for | al<br>of<br>er<br>id |
|                                                                           | specific work order. Form 2 is a computer gener<br>item maintained in Material and Supplies inventor<br>quantities of the item.                                                                                                                                        | rated requi                                                          | sition for a o requisitio                                               | in<br>on             |
| Request for Bid/<br>Request for<br>Quotation/<br>Request for<br>Proposals | Invitation to prospective contractor or supplier to p<br>requisitioned materials, goods, or services.                                                                                                                                                                  | rovide a pr                                                          | roposal for                                                             |                      |
| Responsible Organization                                                  | An organization which is in direct charge of the equation actually engaged in an operation.                                                                                                                                                                            | ipment an                                                            | d manpowe                                                               | er                   |
| (3) Review                                                                | A deliberately critical examination; including<br>monitoring of plan operation, formal independent<br>contemplated actions, and after-the-fact invest<br>conditions.                                                                                                   | , but not<br>evaluatio<br>igations c                                 | limited to<br>ns of certai<br>of abnorma                                | o,<br>n<br>al        |
| (1) Rework                                                                | The process by which a nonconforming item is prior specified requirement by completion, remach other corrective means.                                                                                                                                                 | made to c<br>ining, reas                                             | onform to<br>sembling c                                                 | a<br>or              |
| Rigging Equipment                                                         | Equipment used to connect handling equipment to a slings, shackles, turnbuckles, special tools, etc.                                                                                                                                                                   | an item. 7                                                           | This include                                                            | s                    |
| (4)Right of Access                                                        | The right of a Purchaser or designated representative<br>of a Supplier for the purpose of inspection, su<br>assurance audit.                                                                                                                                           | e to enter<br>rveillance                                             | the premise<br>e, or qualit                                             | es<br>y              |
| Safe Load Path                                                            | A path defined for transport of a heavy load that<br>effects, if the load is dropped, in terms of releases<br>and damage to safety systems. This path sha<br>controlled by procedures or instructions and/or ske<br>may also be enforced by mechanical stops and/or el | will minin<br>of radioac<br>ill be adm<br>etches and<br>ectrical int | nize advers<br>tive materia<br>inistrativel<br>training.<br>terlocks.   | se<br>al<br>y<br>It  |
| Safety Evaluation                                                         | A written record which provides the basis for the<br>plant change or modification, test or experiment do<br>an Unreviewed Safety Question.                                                                                                                             | determina<br>es or does                                              | ation that the not involv                                               | e                    |

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| 5.0 DEFIN<br>Safety Limits<br>Safety Related<br>Safe Shutdown<br>Earthquake (Si<br>Services<br>Seismic Catego | PL<br>NITIONS: (<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | GLOSSA<br>Cont'd)<br>Cont'd)<br>Limits (placed upon importa<br>easonably protect the into<br>uarding against uncontrolled<br>Those plant features necess<br>oolant pressure boundary,<br>maintain it in a safely shutdo<br>nitigate the consequences<br>xposures comparable to the<br>art 100, "Reactor Site Crite<br>That earthquake which is the<br>arthquake potential consist<br>eismology and specific chan<br>nat earthquake which produ-<br>or which certain structures | RY<br>nt process var<br>egrity of those<br>d release of race<br>sary to assur-<br>the capability<br>own condition,<br>of accidents we<br>e guideline ex-<br>ria".      | iables) whise physica<br>dioactivity.<br>e the inter<br>y to shutdo<br>, or the cap<br>which coul<br>xposure de<br>n evaluation<br>egional as<br>load subsur           | Rev.<br>Date<br>Page<br>ich are i<br>al barrio<br>grity of<br>pown the<br>pability t<br>ld resul<br>escribed                 | 17 Dra<br>11/8/9<br>34 of<br>a of<br>necessary<br>ers that a<br>f the reactor<br>reactor ar<br>to prevent of<br>in 10 CF<br>in 10 CF<br>in a geolog | to<br>re<br>or<br>id<br>or<br>te<br>R      |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 5.0 DEFIN<br>Safety Limits<br>Safety Related<br>Safe Shutdown<br>Earthquake (Si<br>Services<br>Seismic Catego | PL<br>NITIONS: (<br>I<br>I<br>I<br>I<br>SE)<br>T<br>SE)                                                         | GLOSSA<br>Cont'd)<br>imits (placed upon importa<br>easonably protect the inte-<br>uarding against uncontrolled<br>hose plant features necess<br>oolant pressure boundary,<br>naintain it in a safely shutdo<br>nitigate the consequences<br>xposures comparable to th<br>art 100, "Reactor Site Crite<br>that earthquake which is the<br>arthquake potential consist<br>eismology and specific char<br>nat earthquake which produ-                                             | RY<br>nt process var<br>egrity of those<br>d release of race<br>sary to assur-<br>the capability<br>we condition,<br>of accidents ve<br>guideline ex-<br>ria".         | iables) whise physica<br>dioactivity.<br>the the interview in the could<br>or the cap<br>which could<br>phich could<br>phich could<br>phich could<br>a subsure de      | Date<br>Page<br>ich are i<br>al barrio<br>grity of<br>own the<br>bability t<br>ld resul<br>escribed                          | 11/8/9<br>34 of<br>necessary<br>ers that a<br>f the reactor<br>reactor an<br>to prevent of<br>t in off-si<br>in 10 CF                               | to<br>re<br>or<br>id<br>or<br>te<br>R      |
| 5.0 DEFIN<br>Safety Limits<br>Safety Related<br>Safe Shutdown<br>Earthquake (S<br>Services<br>Seismic Catego  | PL<br>NITIONS: (<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | Cont'd)<br>imits (placed upon importa<br>easonably protect the intr<br>uarding against uncontrolled<br>hose plant features necess<br>oolant pressure boundary,<br>naintain it in a safely shutdo<br>nitigate the consequences<br>xposures comparable to th<br>art 100, "Reactor Site Crite<br>hat earthquake which is the<br>arthquake potential consist<br>eismology and specific chan<br>nat earthquake which produ-<br>or which certain structures                          | nt process var<br>egrity of thos<br>d release of rac<br>sary to assur<br>the capability<br>wn condition,<br>of accidents v<br>e guideline ex<br>ria".                  | iables) which<br>se physica<br>dioactivity.<br>The the inter-<br>y to shutdo<br>, or the cap<br>which coul-<br>xposure de<br>n evaluation<br>egional at<br>load subsur | Page<br>ich are i<br>al barrio<br>grity of<br>bwn the<br>bability t<br>ld resul<br>sscribed<br>on of th<br>nd loc<br>rface m | 34 of<br>necessary<br>ers that a<br>f the reactor<br>reactor ar<br>to prevent<br>t in off-si<br>in 10 CF                                            | to<br>re<br>or<br>id<br>or<br>te<br>R<br>m |
| 5.0 DEFIN<br>Safety Limits<br>Safety Related<br>Safe Shutdown<br>Earthquake (S<br>Services<br>Seismic Catego  | NITIONS: ()                                                                                                     | Cont'd)<br>imits (placed upon importa<br>easonably protect the into<br>uarding against uncontrolled<br>hose plant features neces<br>colant pressure boundary,<br>maintain it in a safely shutdo<br>nitigate the consequences<br>xposures comparable to th<br>'art 100, "Reactor Site Crite<br>'hat earthquake which is the<br>arthquake potential consist<br>eismology and specific chan<br>nat earthquake which produ-<br>or which certain structures                         | nt process var<br>egrity of those<br>d release of race<br>sary to assur<br>the capability<br>own condition,<br>of accidents we<br>e guideline ex-<br>ria".             | iables) whise physica<br>dioactivity.<br>te the inter<br>y to shutdo<br>, or the cap<br>which coul<br>xposure de<br>n evaluation<br>egional as<br>load subsur          | ich are a<br>al barrid<br>grity of<br>own the<br>bability t<br>ld resul<br>escribed<br>on of th<br>nd loca<br>rface m        | necessary<br>ers that a<br>f the reactor<br>reactor ar<br>to prevent<br>it in off-si<br>in 10 CF                                                    | to<br>re<br>or<br>id<br>or<br>te<br>R      |
| afety Limits<br>afety Related<br>afe Shutdown<br>arthquake (S<br>ervices<br>eismic Catego                     | n<br>SE)<br>T<br>T<br>T<br>SE                                                                                   | imits (placed upon importa<br>easonably protect the intr<br>uarding against uncontrolled<br>hose plant features necess<br>oolant pressure boundary,<br>naintain it in a safely shutdo<br>nitigate the consequences<br>xposures comparable to th<br>art 100, "Reactor Site Crite<br>hat earthquake which is the<br>arthquake potential consist<br>eismology and specific chan<br>hat earthquake which produ-<br>or which certain structures                                     | nt process var<br>egrity of those<br>d release of race<br>sary to assur<br>the capability<br>own condition,<br>of accidents we<br>e guideline ex-<br>ria".             | iables) whi<br>se physica<br>dioactivity.<br>e the inter<br>y to shutdo<br>, or the cap<br>which coul<br>xposure de<br>n evaluation<br>egional as<br>load subsur       | ich are<br>al barrie<br>grity of<br>own the<br>bability t<br>ld resul<br>escribed<br>on of th<br>nd loc<br>rface m           | necessary<br>ers that a<br>f the reactor<br>reactor ar<br>to prevent<br>it in off-si<br>in 10 CF<br>he maximum<br>al geolog                         | to<br>re<br>or<br>nd<br>or<br>te<br>R      |
| Safety Related<br>Safe Shutdown<br>Earthquake (S<br>Services<br>Seismic Catego                                | n<br>SE)<br>I<br>f<br>f                                                                                         | hose plant features neces<br>oolant pressure boundary,<br>naintain it in a safely shutdo<br>nitigate the consequences<br>xposures comparable to th<br>Part 100, "Reactor Site Crite<br>That earthquake which is be<br>arthquake potential consist<br>eismology and specific char<br>nat earthquake which produ-<br>or which certain structures                                                                                                                                 | sary to assur<br>the capability<br>wn condition,<br>of accidents w<br>e guideline ex-<br>ria".<br>ased upon ar<br>dering the re-<br>acteristics of l<br>ices the maxin | e the intervente<br>y to shutdo<br>, or the cap<br>which could<br>xposure de<br>n evaluation<br>egional at<br>load subsur                                              | grity of<br>own the<br>bability t<br>ld resul<br>escribed<br>on of th<br>nd loc<br>rface m                                   | the reactor ar<br>reactor ar<br>to prevent<br>it in off-si<br>in 10 CF<br>maximum<br>al geolog                                                      | or<br>nd<br>or<br>R<br>m                   |
| Safe Shutdown<br>Earthquake (S<br>Services<br>Seismic Catego                                                  | n<br>SE) 7<br>e<br>s<br>t<br>f<br>r<br>r                                                                        | hat earthquake which is barthquake potential consi<br>eismology and specific char<br>nat earthquake which produce<br>or which certain structures                                                                                                                                                                                                                                                                                                                               | ased upon an<br>dering the re-<br>acteristics of l<br>ices the maxim                                                                                                   | n evaluatio<br>egional a<br>load subsu<br>mum vibra                                                                                                                    | on of th<br>nd loc:<br>rface m                                                                                               | e maximu<br>al geolog                                                                                                                               | m                                          |
| Services<br>Seismic Catego                                                                                    | -                                                                                                               | eferred to as the "Design Ba                                                                                                                                                                                                                                                                                                                                                                                                                                                   | , systems, and<br>category I)<br>sis Earthquake                                                                                                                        | d compone<br>. SSE ha<br>e".                                                                                                                                           | tory gro<br>ents are<br>as comr                                                                                              | aterial. It<br>bund motic<br>designed<br>monly bee                                                                                                  | y,<br>is<br>on<br>to<br>en                 |
| Seismic Catego                                                                                                | 1                                                                                                               | he performance by a suppli                                                                                                                                                                                                                                                                                                                                                                                                                                                     | er.                                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                     |                                            |
|                                                                                                               | ory I 7<br>r                                                                                                    | hose structures, systems, a emain functional if the Safe                                                                                                                                                                                                                                                                                                                                                                                                                       | and componer<br>Shutdown Ear                                                                                                                                           | nts that sho<br>rthquake (S                                                                                                                                            | ould be<br>SSE) occ                                                                                                          | designed curs.                                                                                                                                      | to                                         |
| Setpoint                                                                                                      | r<br>S<br>S                                                                                                     | predetermined control sett<br>tate to indicate that the p<br>elected value.                                                                                                                                                                                                                                                                                                                                                                                                    | ing, at which p<br>arameter bein                                                                                                                                       | point a bist<br>g controlle                                                                                                                                            | able dev<br>ed has                                                                                                           | vice change<br>reached th                                                                                                                           | es<br>1e                                   |
| Shall                                                                                                         | I                                                                                                               | is used to denote a requirer                                                                                                                                                                                                                                                                                                                                                                                                                                                   | nent.                                                                                                                                                                  | r                                                                                                                                                                      | ·                                                                                                                            |                                                                                                                                                     | •                                          |
| Should                                                                                                        | Ī                                                                                                               | is used to denote a recomm                                                                                                                                                                                                                                                                                                                                                                                                                                                     | endation.                                                                                                                                                              |                                                                                                                                                                        |                                                                                                                              | 2                                                                                                                                                   |                                            |
| Significant Co<br>Adverse To Qu                                                                               | nditions<br>Jality F<br>e<br>2<br>2<br>c<br>d                                                                   | ailures, malfunctions, de<br>quipment and other non<br>valuation for reportability as<br>1 deficiencies. In additic<br>orrective action for such n<br>ocument the cause and inclu                                                                                                                                                                                                                                                                                              | ficiencies or<br>conformance:<br>10 CFR 50.5<br>on to correcti<br>onconforming<br>de action to pr                                                                      | deviation<br>s which r<br>5(e), 10 C<br>ng the im<br>condition<br>reclude repo                                                                                         | ns in m<br>equire of<br>R 50.73<br>mediate<br>s shall i<br>etition.                                                          | naterial an<br>engineerin<br>b or 10 CF<br>e condition<br>identify an                                                                               | id<br>Ig<br>R,<br>Id                       |

|                                                   | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                           |                                                                                               |                                                                                                   |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                    | Rev.                                                                                          | 17 Draft I                                                                                        |
|                                                   | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                           | Date                                                                                          | 11/8/93                                                                                           |
| FPL                                               |                                                                                                                                                                                                                                                                                                                                                                                    | Page                                                                                          | 35 of · 4                                                                                         |
| 5.0 <b>DEFINITIONS</b> :                          | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                           | •                                                                                             |                                                                                                   |
| Significant Deficiency                            | A deficiency, which, to have remained uncorrecter<br>adversely the safety of operations of the nuclear<br>deficiencies are reportable to the NRC as delineated<br>Significant deficiencies include, but are not limited<br>any portion of the quality assurance program<br>conforming to established criteria; faulty const<br>structure, system, or component; and deviation from | ed, could l<br>r power p<br>d in 10 Cl<br>ed to, a b<br>; final de<br>ruction; d<br>m perform | ave affected<br>lant. These<br>FR 50.55(e).<br>reakdown in<br>esign(s) not<br>amage to a<br>ance. |
| Significant Incident                              | Any incident which is reportable to the NRC in<br>requirements of 10 CFR 50.55(e), Regulato<br>Appendices A & B (Technical Specifications) of the<br>Such incidents usually involve safety implications.                                                                                                                                                                           | n accorda<br>ry Guide<br>the Opera                                                            | nce with the<br>1.16, and<br>ting License.                                                        |
| Single Failure                                    | Includes such events as the shorting or open-circui<br>signal or power cables. It also includes single cr<br>events that cause a member of consequential co<br>channel failures; e.g., the overheating of an amplif<br>"single failure" even though several transistor<br>Mechanical damage to a mode switch would be a "s<br>several channels might become involved.              | ting of int<br>edible mai<br>mponent,<br>ier module<br>failures n<br>single failu             | erconnecting<br>lfunctions or<br>module, or<br>e would be a<br>hight result.<br>re" although      |
| Software Design<br>Description                    | A technical description of how the software will me<br>forth in the Software Requirements Specifica<br>component algorithms, control logic, data str<br>information, input/output formats, and interface des                                                                                                                                                                       | et the requ<br>tion (e.g.<br>uctures, o<br>scriptions)                                        | irements set<br>system or<br>lata set-use                                                         |
| Software Requirements<br>Specification            | Identifies the requirements for a system or syst functions, performance, design constraints, interfact standards).                                                                                                                                                                                                                                                                 | em comp<br>ce(s) and c                                                                        | onent (e.g.,<br>levelopment                                                                       |
| Software<br>Verification and<br>Validation Plan   | Identifies the tasks, methods, and criteria for acco<br>and validation of the software and all test document                                                                                                                                                                                                                                                                       | mplishing<br>ation requ                                                                       | verification                                                                                      |
| Software<br>Verification and<br>Validation Report | Documents the results of the execution of the Soft<br>Validation Plan; identifies any major deficiencies for<br>results of reviews, audits, and tests and whether the<br>operational use                                                                                                                                                                                           | tware Veri<br>ound and g                                                                      | fication and<br>provides the<br>is ready for                                                      |

|                                                 | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                                  |                                                                     |                                                                          |                   |
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|                                                 | GLOSSARY                                                                                                                                                                                                                                                                                                  | Date                                                                | 11/8/9                                                                   | 3                 |
| FPL                                             |                                                                                                                                                                                                                                                                                                           | Page                                                                | 36 of                                                                    | 42                |
| 5.0 <b>DEFINITIONS</b> :                        | (Cont'd)                                                                                                                                                                                                                                                                                                  |                                                                     |                                                                          |                   |
| Source Inspection                               | The inspection of a product by FPL or its des supplier's plant, prior to shipment.                                                                                                                                                                                                                        | signated a                                                          | agent at th                                                              | ne                |
| Source Material                                 | Uranium or thorium, or any combination thereof<br>chemical form; or, ores which contain by weight<br>percent (0.05%) or more of uranium, thorium,<br>thereof. Source material does not include special nu                                                                                                 | f, in any<br>one-twen<br>or any<br>clear mate                       | physical c<br>tieth of on<br>combinatio<br>erial.                        | or<br>le<br>on    |
| (1) Source<br>Surveillance                      | A review, observation, or inspection for the purpos<br>action has been accomplished as specified at the<br>procurement or manufacture.                                                                                                                                                                    | e of verif<br>location                                              | fying that a<br>of materia                                               | n<br>al           |
| Special Nuclear<br>Material                     | Plutonium, uranium 233, uranium enriched in the<br>isotope 235, and any other material which the Con<br>the provisions of section 51 of the Atomic E<br>determines to be special nuclear material, but doe<br>material; or any material artificially enriched by any<br>does not include source material. | isotope 2<br>nmission,<br>nergy Ac<br>s not inc<br>of the fc        | 33 or in th<br>pursuant t<br>of 1954<br>clude sourc<br>pregoing bu       | e<br>0<br>1, .    |
| Special Processes                               | Those processes which must be qualified and control<br>highly dependent on close control of process variab<br>and objective verifications of end quality (inspec-<br>testing) is difficult.                                                                                                               | olled whe<br>les or ope<br>tion, exa                                | re quality i<br>erator skills<br>mination o                              | is<br>5;<br>01    |
|                                                 | As a further clarification, special processes identifie<br>and standards shall be controlled, qualified a<br>accordance with those codes and standards. I<br>processes include (but are not limited to) weldin<br>nondestructive examination, and special nuclear clear                                   | d by appl<br>and impl<br>Examples<br>g, heat u<br><del>ning</del> . | icable code<br>lemented in<br>s of specia<br>reating and                 | ร<br>n<br>ป<br>d  |
|                                                 | Flushing, protective coating, and plating applica cleaning should be reviewed to determine if they ar                                                                                                                                                                                                     | tions, an<br>e special                                              | d nuclea:<br>processes.                                                  | r -               |
| Special Quality<br>Assurance<br>Document (SQAD) | Standardized quality requirements which are frequent<br>related purchases. Each SQAD defines a particular of<br>characteristics which are commonly applied to a<br>documents. They are intended as a convenience to<br>inclusion in RPAs and POs. Copies of SQAD<br>Nuclear Materials Management.         | tly used f<br>haracteris<br>nuclear f<br>the users<br>s are ava     | for nuclear<br>stic or set o<br>procuremen<br>for ease o<br>ailable fron | f<br>it<br>f<br>n |
|                                                 | · ·                                                                                                                                                                                                                                                                                                       |                                                                     |                                                                          |                   |
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|                                    | QUALITY ASSURANCE MANUAL                                                                                                                                                     |                                            |                                           |                 |
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|                                    | GLOSSARY                                                                                                                                                                     | Date                                       | 11/8/9                                    | 3               |
| FPL                                |                                                                                                                                                                              | Page                                       | 37 of                                     | 4               |
| 5.0 <u>DEFINITIONS</u>             | : (Cont'd)                                                                                                                                                                   |                                            |                                           |                 |
| (1) Specification                  | A concise statement of a set of requirements to be<br>a material, or process; indicating, whenever approp<br>means of which it may be determined whether the<br>satisfied.   | satisfied b<br>priate, the j<br>requireme  | by a produc<br>procedure l<br>nts given a | et,<br>by<br>re |
| Start-Up Tests                     | Tests that are performed after initial fuel loading several power level plateaus to 100% power.                                                                              | g and proc                                 | eed throug                                | gh              |
| Stop Work Order                    | Management order to stop all work or plant opera order.                                                                                                                      | ations as d                                | efined in th                              | ne              |
| Stop Work Request                  | Request to management to issue a Stop Work Orde                                                                                                                              | er.                                        |                                           |                 |
| (2) Storage                        | That period following the release of an item for s for start-up or preoperational testing. This include                                                                      | shipment u<br>s in-place s                 | ntil turnove<br>storage.                  | er              |
| Storage<br>Facilities              | Warehouse or yard area designated and prepared for                                                                                                                           | or the hold                                | ing of item                               | s.              |
| Subassembly                        | A replaceable combination of parts which is an eler                                                                                                                          | ment of an                                 | assembly.                                 | 1               |
| Substantial Safety<br>Hazard       | A loss of safety function to the extent that there is a degree of protection provided to public health and or activity licensed under applicable Parts of Title Regulations. | a major red<br>l safety for<br>e 10, Cod   | uction in th<br>any facilit<br>e of Feder | ie<br>Sy<br>al  |
| (1) Subsystem                      | A group of assemblies or components or both, c single function.                                                                                                              | ombined t                                  | o perform                                 | a               |
| Subtier Procurement                | Procurement by a supplier from a subsupplier of ite                                                                                                                          | ems or serv                                | vices.                                    |                 |
| (3) Supervision                    | Direction of activities of personnel or monitor<br>functions through a supervisor who is responsib<br>the activities he directs or monitors.                                 | ing of a<br>le and acc                     | function countable for                    | )r<br>)r        |
| Supplier                           | Any individual or organization under contract for<br>services. "Supplier" encompasses the terms Venc<br>Subcontractor, Fabricator, Consultant, and lower ti                  | or furnishi<br>lor, Seller,<br>ler levels. | ng items o<br>Contracto                   | or<br>r,        |
| Supplier Deviation<br>Notice (SDN) | Notification by a supplier of a deviation or discrept<br>contracted quality and/or technical requirements<br>/contract.                                                      | ancy with a of a pure                      | regard to th<br>chase orde                | e<br>r          |

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|                                         | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                      |
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|                                         | GLOSSARY                                                                                                                                                                                                                                                                                          | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11/8/9                                                              | 3                    |
| FPL                                     | •                                                                                                                                                                                                                                                                                                 | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 38 of                                                               | 42                   |
| 5.0 <b>DEFINITIONS</b> :                | (Cont'd)                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                      |
| Supplier Facility<br>Evaluation (Audit) | An evaluation by a <u>Principal Lead</u> Auditor of supplier's Quality Assurance Program and the firm product of acceptable quality.                                                                                                                                                              | the effect<br>m's ability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | iveness of<br>to supply                                             | a<br>a               |
| Supplier Reviewer                       | A Principal Lead Auditor, a Quality Engineer or or designated by the Quality Manager Juno Beach to the acceptability of a supplier, based upon the result                                                                                                                                         | other indiv<br>review ar<br>its of an ev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | idual who<br>id determin<br>valuation.                              | is<br>ne             |
| Surveillance                            | The physical presence to monitor by observation the (including requirements for data, records, and lot they are performed in a specified manner.                                                                                                                                                  | he designa<br>ogging), to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ted activities assure the                                           | es<br>at             |
| (3) Surveillance<br>Testing             | Periodic testing to verify that safety-related-struce<br>components items affecting quality continue to<br>the state of readiness necessary to perform their safet                                                                                                                                | function of the second | <del>ystoms, an</del><br>or remain i<br>on.                         | i <del>d</del><br>in |
| (2) System<br>(3)                       | An integral part of a nuclear power plant comprised<br>al or mechanical components (or combinations<br>operated as a separate entity to perform a specific fu                                                                                                                                     | of electric<br>thereof) (<br>inction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | al, electric-<br>hat may b                                          | xe                   |
| (1) System Performance<br>Test          | A test performed on a completed system<br>instrumentation, controls, fluid and mechanical sub<br>or simulated normal process conditions such as ter<br>and pressure.                                                                                                                              | includin<br>osystems u<br>nperature,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | g electric<br>nder norma<br>flow, leve                              | C,<br>al<br>1,       |
| Technical Evaluation                    | An evaluation performed to assure that the conspecified for procured items. The Technical Ex<br>Grade Dedication (when required) and Item Eq<br>(when required) are controlled as one docum<br>procurement specification.                                                                         | rect requivaluation,<br>uivalency<br>ent and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | rements ar<br>Commercia<br>Evaluatio<br>constitute                  | ne<br>al<br>a<br>a   |
| Technical Review                        | A determination as to whether a deficiency or no<br>detected during a design, construction, procuren<br>operating, or modification activity will be accept<br>repaired to an acceptable condition, or rejected.                                                                                   | onconform<br>tent, insta<br>ed "as is"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | hance that i<br>llation, tes<br>, reworked                          | is<br>t,<br>1,       |
| Technical Specifications<br>(Safety)    | Those specifications contained in a facility operatin<br>specific technical operating limits and condition<br>facility operation; the basis for these limits and<br>surveillance requirements which relate to the technispections necessary to assure that the quar-<br>components is maintained. | g license v<br>is impose<br>l conditio<br>ests, calibi<br>lity of sy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | which defin<br>d upon th<br>ns, and th<br>rations, and<br>stems and | e<br>e<br>d<br>d     |

|                                      | QUALITI ASSUKANCE MANUAL                                                                                                                                                                                            |                                                          | •                                                       |                                  |
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|                                      | GLOSSARY                                                                                                                                                                                                            | Date                                                     | 11/8/9                                                  | 13                               |
|                                      | (Contid)                                                                                                                                                                                                            | Page                                                     | *39 of                                                  |                                  |
| 5.0 <u>DEFINITIONS</u> :             | (Çonta)                                                                                                                                                                                                             |                                                          |                                                         |                                  |
| Temporary<br>Procedures              | Temporary Procedures are written instructions wh                                                                                                                                                                    | ich may be                                               | issued to:                                              |                                  |
| •                                    | 1. Direct operations during testing, refueli modifications.                                                                                                                                                         | ng, maint                                                | enance, an                                              | ıd                               |
|                                      | 2. Provide guidance in unusual situations not normal procedures.                                                                                                                                                    | within the                                               | scope of th                                             | ıe                               |
|                                      | 3. Ensure orderly and uniform operations for<br>plant, a system, or a component of a syst<br>manner not covered by existing detailed p<br>modified or extended in such a manner th<br>procedures do not apply.      | short perio<br>em is perf<br>rocedures<br>at portions    | ds when the<br>forming in<br>or has been<br>or existing | ie<br>a<br>n<br>ig               |
| Temporary<br>Storage Facility        | A Quality Assurance Record Storage Facility<br>requirements of a permanent storage facility excep<br>for a limited period of a time up to 18 months befor<br>a permanent storage facility.                          | that meet<br>t, the record<br>ore being th               | s all of th<br>ds are store<br>ransmitted t             |                                  |
| (2) Testing<br>(3)                   | Performance of those steps necessary to determine components function in accordance with pre-determine                                                                                                              | that system<br>mined spec                                | ns or<br>ifications.                                    |                                  |
| Test Plan                            | An outline, narrative description, or flow diagram<br>be performed, the methods to be used and the poir<br>they are to be executed. May be a test procedure.                                                        | n indicatin<br>its in the pr                             | g the tests t<br>ocess wher                             | io<br>re                         |
| Tolerance                            | The range of acceptable values for a characteristi the specified upper and lower limits.                                                                                                                            | c which is                                               | bounded b                                               | y                                |
| Topical Quality<br>Requirement (TQR) | A document that delineates Quality A<br>requirements and responsibilities and su<br>approach to activities related to items and<br>in the Quality Assurance Program. TQ<br>controlled by the Nuclear Assurance Depa | ssurance<br>mmarizes<br>d service<br>Rs are i<br>rtment. | Program<br>the FP<br>s include<br>ssued and             | ո<br>Լ<br>d                      |
| Traceability                         | Maintaining identification for the purpose of p<br>incorrect or defective materials, components or mo                                                                                                               | preventing<br>dules.                                     | the use o                                               | f                                |
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|                               | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date                                                                                                            | 11/8/9                                                                                                       | 93`                                          |
| FPL                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Page                                                                                                            | 40 of                                                                                                        | <sup>•</sup> 42                              |
| 5.0 <b>DEFINITIONS</b> :      | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |                                                                                                              |                                              |
|                               | с ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |                                                                                                              | 1r                                           |
| (1) Transit                   | A state of being conveyed or transported from one                                                                                                                                                                                                                                                                                                                                                                                                                         | place to ar                                                                                                     | other.                                                                                                       |                                              |
| Transportation<br>Mode        | A method identified by the conveyance used for and may include motor vehicles, ships, railroad cargo-carrying body (trailer, van, boxcar, etc.) is a                                                                                                                                                                                                                                                                                                                      | transportat<br>cars, or ai<br>separate v                                                                        | ion of iter<br>rcraft. Ea<br>ehicle.                                                                         | ns<br>ch                                     |
| (1) Trip-Point                | A predetermined critical level at which a bistable of indicate that the quantity under surveillance has value.                                                                                                                                                                                                                                                                                                                                                            | device cha<br>s reached                                                                                         | nges state<br>the selecte                                                                                    | to<br>ed                                     |
| Trouble Shooting              | An activity performed by a qualified technician to a is not performing its intended function and what ca                                                                                                                                                                                                                                                                                                                                                                  | determine<br>used it to r                                                                                       | why an ite nalfunction                                                                                       | m<br>n.                                      |
| Environmental Question        | A proposed change, test or experiment shall be<br>unreviewed environmental question if it concerns:<br>result in significant increase in any adverse<br>previously evaluated in the Final Environment<br>supplements to the FES environmental impact<br>decisions of the Atomic Safety and Licensing<br>significant change in effluents or power levels, 3) a<br>reviewed and evaluated in the documents listed in<br>may have a significant adverse environmental impact | deemed to<br>1) a matter<br>environmental Stater<br>appraisals<br>Board (A<br>a matter no<br>n one (1) a<br>ct. | o involve a<br>r which ma<br>ental impa<br>nent (FES<br>, or in an<br>SLB), 2)<br>of previous<br>bove, which | an<br>ct<br>ct<br>c),<br>ny<br>a<br>ly<br>ch |
| Unreviewed Safety<br>Question | An Unreviewed Safety Question is defined in 10 C<br>posed change, test, or experiment shall be d<br>Unreviewed Safety Question if:                                                                                                                                                                                                                                                                                                                                        | CFR 50.59.<br>eemed to                                                                                          | A pro-<br>involve                                                                                            | an                                           |
|                               | 1. The probability of occurrence or the consequence malfunction of equipment important to safety provide the Safety Analysis Report may be increased;                                                                                                                                                                                                                                                                                                                     | ences of a<br>previously<br>or                                                                                  | à accident o<br>evaluated                                                                                    | or<br>in                                     |
|                               | 2. If a possibility for an accident or malfunction evaluated previously in the Safety Evaluation for                                                                                                                                                                                                                                                                                                                                                                      | of a differe<br>Report may                                                                                      | ent type that<br>y be create                                                                                 | an<br>d,                                     |
|                               | 3. If the margin of safety as defined in the base of the specification is reduced.                                                                                                                                                                                                                                                                                                                                                                                        | asis for an                                                                                                     | y Technic                                                                                                    | al                                           |
| Update                        | Revise and/or enter into the nuclear plant drawing s                                                                                                                                                                                                                                                                                                                                                                                                                      | system.                                                                                                         | *                                                                                                            |                                              |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 |                                                                                                              |                                              |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 |                                                                                                              |                                              |

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| GLOSSARY       If y Draft         DeFINITIONS:       (Cont'd)         (1) Use-as-is       A disposition which may be imposed for a nonconformance when it can be established that no adverse conditions will exist and that the subject will satisfy all engineering functional requirements including those of performance, maintainability, fit, and safety.         User Documentation       Specifies and describes the required input data, input sequences, options, program limitations, and other activities' items necessary for the execution of the software. User documentation shall include as a minimum:         1. User instructions that contain an introduction, a description of any required maining for using the system.         2. A system narrative.         3. Input/output specifications.         4. Samples of all outputs, forms, reports, or displays.         5. Data entry instructions for data preparation, data keying, data verification, and error correction.         6. References to all documents or manuals intended for users.         7. A description of possible error situations and how the user should respond.         Validation       The process of evaluating software at the end of the software development process to ensure compliance with software requirements.         Validation       A an ato of confirming, substantiating and assuring that an activity or condition such as Bulletins, Notices, Letters, etc. that affects vendor manual contents.         Verification (Hardware)       An ato fo confirming whether or not the products of a given phase. of the software development cycle fulfill the       |                                | QUALITI ASSURANCE MANUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  | 10 5                                                              |                  |
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| GLOSSARY         Date         11/6/93           Fight         Page         41 of           5.0 DEFINITIONS:         (Contd)           (1) Use-as-is         A disposition which may be imposed for a nonconformance when it can be established that no adverse conditions will exist and that the subject will satisfy all engineering functional requirements including those of performance, maintainability, fit, and safety.           User Documentation         Specifies and describes the required input data, input sequences, options, program limitations, and other activities/ items necessary for the execution of the software. User documentation shall include as a minimum:           1. User instructions that contain an introduction, a description of the user's interaction with the system, and a description of any required training for using the system.           2. A system narrative.         3. Input/output specifications.           4. Samples of all outputs, forms, reports, or displays.         5. Date entry instructions for data preparation, data keying, data verification, and error correction.           6. References to all documents or manuals intended for users.         7. A description of system limitations.           8. A description of possible error situations and how the user should respond.         Yalidation           Validation         The process of evaluating software at the end of the software development process to ensure compliance with software requirements.           Vendor Manual         A matual supplied by equipment manufacturers that addresses installation, operation, and maintena |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rev.                                                                             | 17 Drai                                                           | lt .<br>—        |
| 5.0 DEFINITIONS:       (Cont'd)         (1) Use-as-is       A disposition which may be imposed for a nonconformance when it can be established that no adverse conditions will exist and that the subject will satisfy all engineering functional requirements including those of performance, maintainability, fit, and safety.         User Documentation       Specifies and describes the required input data, input sequences, options, program limitations, and other activities/ items necessary for the execution of the software. User documentation shall include as a minimum:         1. User instructions that contain an introduction, a description of any required training for using the system.         2. A system narrative.         3. Input/output specifications.         4. Samples of all outputs, forms, reports, or displays.         5. Data entry instructions for data preparation, data keying, data verification, and error correction.         6. References to all documents or manuals intended for users.         7. A description of possible error situations and how the user should respond.         Validation       The process of evaluating software at the end of the software development process to ensure compliance with software requirements.         Vendor Manual       A manual supplied by 'equipment manufacturers that addresses information, operation, and maintenance of the equipment.         (1) Verification (Hardware)       An act of confirming, substantiating and assuring that an activity or condition has been implemented in conformance with the specified requirements.         Verification (Software)   |                                | GLOSSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page                                                                             | 41 of                                                             | 3                |
| (1) Use-as-is       A disposition which may be imposed for a nonconformance when it can be established that no adverse conditions will exist and that the subject will satisfy all engineering functional requirements including those of performance, maintainability, fit, and safety.         User Documentation       Specifies and describes the required input data, input sequences, options, program limitations, and other activities/ items necessary for the execution of the software. User documentation shall include as a minimum:         1. User instructions that contain an introduction, a description of the user's interaction with the system, and a description of any required training for using the system.         2. A system narrative.         3. Input/output specifications.         4. Samples of all outputs, forms, reports, or displays.         5. Data entry instructions for data preparation, data keying, data verification, and error correction.         6. References to all documents or manuals intended for users.         7. A description of system limitations.         8. A description of possible error situations and how the user should respond.         Validation         The process of evaluating software at the end of the software development process to ensure compliance with software requirements.         NortE: "Vendor Manual" also refers to all vendor supplied technical information such as Bulletins, Parts Bulletins, Notices, Letters, e              | 5.0 DEFINITIONS:               | (Cont'd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  | 41 01                                                             |                  |
| User DocumentationSpecifies and describes the required input data, input sequences, options,<br>program limitations, and other activities/ items necessary for the<br>execution of the software. User documentation shall include as a<br>minimum:1.User instructions that contain an introduction, a description of the<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (1) Use-as-is                  | A disposition which may be imposed for a nonce<br>be established that no adverse conditions will ex<br>will satisfy all engineering functional requirement<br>performance, maintainability, fit, and safety.                                                                                                                                                                                                                                                                                                            | onformance<br>sist and the<br>ents includ                                        | e when it ca<br>at the subject<br>ling those c                    | n<br>ct<br>of    |
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| Vital Area An area located within a protected area containing vital equipment or facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Verification<br>(Software)     | The process of determining whether or not the pro<br>of the software development cycle fulfill the red<br>during the previous phase.                                                                                                                                                                                                                                                                                                                                                                                    | ducts of a quirements                                                            | given phase<br>s established                                      | <b>1</b>         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vital Area                     | An area located within a protected area contain facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ing vital e                                                                      | quipment o                                                        | r                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                                                                   |                  |

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| 52                                                                                                              | QUALITY ASSURANCE MANUAL                                                                                                                                                                                                                                                     |                                                                 | -                                                    |                           |
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|                                                                                                                 |                                                                                                                                                                                                                                                                              | Rev.                                                            | 17 Dra                                               | aft B                     |
| ti di seconda di second | GLOSSARY                                                                                                                                                                                                                                                                     | Date                                                            | 11/8/9                                               | 93                        |
| FPL                                                                                                             |                                                                                                                                                                                                                                                                              | Page                                                            | 42 of                                                | 42                        |
| 5.0 <b>DEFINITIONS</b> :                                                                                        | (Cont'd)                                                                                                                                                                                                                                                                     |                                                                 |                                                      |                           |
| Vital Equipment                                                                                                 | Any equipment system, device, or material; the<br>release of which could directly or indirectly enda<br>and safety by exposure to radiation. Equipment or<br>be required to function to protect public health and<br>failure, destruction, or release are also considered to | failure, d<br>inger the<br>systems<br>safety fol<br>o be vital. | estruction<br>public heal<br>which wou<br>llowing su | or<br>lth .<br>ld .<br>ch |
| Waiver                                                                                                          | An exception to established controls, or the procedures in lieu of controls.                                                                                                                                                                                                 | adoption                                                        | n of speci                                           | ial                       |
| Witness                                                                                                         | To watch over, observe, or examine a specific t which includes sign-off responsibility.                                                                                                                                                                                      | est or wo                                                       | rk operatio                                          | on -                      |
| Work Instructions                                                                                               | Instructions to personnel performing work on s controls and identification of materials and equipm or installation.                                                                                                                                                          | pecific an<br>nent durin                                        | reas such<br>g fabricatio                            | as<br>on                  |
| Workmanship                                                                                                     | That quality of an item that expresses its skillful a without apparent blemishes.                                                                                                                                                                                            | nd artful i                                                     | manufactur                                           | е,                        |
| Wrap                                                                                                            | A flexible material, formed around the item or pack to facilitate handling, marking or labeling.                                                                                                                                                                             | age to exc                                                      | lude dirt aı                                         | nd                        |
|                                                                                                                 | ii .                                                                                                                                                                                                                                                                         |                                                                 |                                                      |                           |
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| а.<br>М                                                                                                         |                                                                                                                                                                                                                                                                              |                                                                 | 1                                                    |                           |
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## Enclosure III