UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

8/8/84

MEMORANDUM FOR: William Miller, Chief
Licensee Fee Management Branch
Office of Administration

Cost Acct
FY 83 - 5
FY 84 = 211
216

FROM: Elliott A. Greher, Program Analyst
Program Support and Analysis Staff
Office of Inspection and Enforcement

SUBJECT: REQUESTED LICENSE FEE INFORMATION

We have reviewed available records on IE staff effort -- staff or IE consultants assigned to IE headquarters or to the Technical Training Center -- devoted to license fee-billable efforts for the reactor license Vogtle 1, docket number 50-424 during the period 6/28/84 to 6/23/84.

( ) There is no record of IE staff effort.

(X) There is IE staff effort and it is all devoted to IE functions. A total of 216.0 hours of effort is recorded. See enclosed computer run for the details.

( ) There is IE staff effort and it is all devoted to regional functions. The appropriate computer run has been mailed to region _____.

( ) There is IE staff effort and it is devoted in part to IE functions. A total of _____ hours of effort is recorded. See enclosed computer run for details. There is also IE staff effort devoted to regional functions. The appropriate computer run has been mailed to region _____.

(X) We are still searching available contractor cost records and expect to provide that information to you and to the regions, as appropriate within three weeks.

( ) There is no record of IE computer costs.

( ) There are IE contractor costs. See enclosed information.

Elliott A. Greher, Program Analyst
Program Support and Analysis Staff
Office of Inspection and Enforcement

343

Enclosures:
As stated

cc w/o enclosures:
J. L. Blaha, IE
A. J. Burda, IE
R Malloy, RII

		WK ENDING	ORG CODE	SOC-SEC NO	ACT CODE	REG HRS	NON-REG HRS	TOTALHRS
		010784	I112		LRA	4.0	.0	4.0
WK-END	TOTAL	010784	I112		LRA	4.0	.0	4.0
		021184	I112		LRA	1.0	.0	1.0
WK-END	TOTAL	021184	I112		LRA	1.0	.0	1.0
		032484	I241		LRA	14.0	4.0	18.0
WK-END	TOTAL	032484	I241		LRA	14.0	4.0	18.0
		040784	I112		LRA	12.0	.0	12.0
WK-END	TOTAL	040784	I112		LRA	12.0	.0	12.0
		040784	I113		LRA	21.0	17.0	38.0
WK-END	TOTAL	040784	I113		LRA	21.0	17.0	38.0
		040784	I241		LRA	8.0	4.0	12.0
WK-END	TOTAL	040784	I241		LRA	8.0	4.0	12.0
		041484	I112		LRA	9.0	.0	9.0
WK-END	TOTAL	041484	I112		LRA	9.0	.0	9.0
		041484	I113		LRA	.0	10.0	10.0
WK-END	TOTAL	041484	I113		LRA	.0	10.0	10.0
		041484	I241		LRA	25.0	3.0	28.0
WK-END	TOTAL	041484	I241		LRA	25.0	3.0	28.0
		042184	I241		LRA	6.0	2.0	8.0
WK-END	TOTAL	042184	I241		LRA	6.0	2.0	8.0
		042884	I112		LRA	1.0	.0	1.0
WK-END	TOTAL	042884	I112		LRA	1.0	.0	1.0
		042884	I241		LRA	2.0	.0	2.0
WK-END	TOTAL	042884	I241		LRA	2.0	.0	2.0

MPS DATA FOR VOGTLE 1 (50/424)
JUN 28, 1974 TO JUNE 23, 1984

		WK ENDING	ORG CODE	SOC-SEC NO	ACT CODE	REG HRS	NON-REG HRS	TOTALHRS
		050584	I112	[redacted]	LRA	3.0	.0	3.0
WK-END	TOTAL	050584	I112		LRA	3.0	.0	3.0
		051984	I241		LRA	8.0	2.0	10.0
WK-END	TOTAL	051984	I241		LRA	8.0	2.0	10.0
		060284	I112		LRA	9.0	.0	9.0
WK-END	TOTAL	060284	I112		LRA	9.0	.0	9.0
		061684	I111		LRA	9.0	1.0	10.0
WK-END	TOTAL	061684	I111		LRA	9.0	1.0	10.0
		071683	I113		LRA	2.0	.0	2.0
WK-END	TOTAL	071683	I113		LRA	2.0	.0	2.0
		081383	I113		LRA	2.0	.0	2.0
WK-END	TOTAL	081383	I113		LRA	2.0	.0	2.0
		100183	I113		LRA	1.0	.0	1.0
WK-END	TOTAL	100183	I113		LRA	1.0	.0	1.0
		100883	I241		LRA	12.0	.0	12.0
						12.0	.0	12.0
WK-END	TOTAL	100883	I241		LRA	24.0	.0	24.0
		101583	I241		LRA	3.0	.0	3.0
						3.0	.0	3.0
WK-END	TOTAL	101583	I241		LRA	6.0	.0	6.0
		111283	I113		LRA	5.0	.0	5.0
WK-END	TOTAL	111283	I113		LRA	5.0	.0	5.0
		111983	I113		LRA	26.0	.0	26.0
WK-END	TOTAL	111983	I113		LRA	26.0	.0	26.0

		WK ENDING	ORG CODE	SOC-SEC NO	ACT CODE	REG HRS	NON-REG HRS	TOTALHRS
		112683	I113	[redacted]	LRA	2.0	.0	2.0
WK-END	TOTAL	112683	I113		LRA	2.0	.0	2.0
		121083	I111		LRA	3.0	8.0	11.0
WK-END	TOTAL	121083	I111		LRA	3.0	8.0	11.0
		121783	I111		LRA	8.0	8.0	16.0
WK-END	TOTAL	121783	I111		LRA	8.0	8.0	16.0
		121783	I113		LRA	5.0	.0	5.0
WK-END	TOTAL	121783	I113		LRA	5.0	.0	5.0

	WK ENDING	ORG CODE	SOC-SEC NO	ACT CODE	REG HRS	NON-REG HRS	TOTALHRS
GRAND TOTAL					216.0	59.0	275.0

LRA = LICENSING FOR OL

I1-- QA LICENSING

I2-- } EP LICENSING
I4-- }

10/19/84

Region II

Jim:

For the Region II cases listed below, all professional hours shown as QAT or 3BH should be excluded from the OL review computation because [redacted] Chapter 17 of the SER refers to the licensee's topical report. I'm getting copies of the Chapter 17 pages from the updated FSAR retained by the Records Section (Docket Files) and will let you see them when they arrive:

1. TVA - Bellefonte 1 & 2 - Topical Report Number-TVA-TR-75-1
   - Watts Bar 1 & 2 - Topical Report Number-TVA-TR-75-1

2. Duke Power - Catawba 1 & 2 - Topical Report Number-DUKE-1

3. Mississippi Power - Grand Gulf 1 & 2 - Topical Report Number-MPL-TOP-1

I don't find that there are topicals for QA on Harris 1 & 2 or Vogtle 1 & 2, but I am getting Chapter 17 pages to see what the FSAR says. Florida Power & Light and VEPCO also have topical reports but they do not have any OL applications under review thus these two are not at issue. I plan to look at the revisions/amendments to the topical reports for which fees have been collected and will determine if the fees assessed cover the latest amendments filed or approved

Reba

Vogtle 1/2
QA Section
From FSAR
as provided
by the
Docket
files
per my
request
10/19/84
R. Clark
10/22

17.2 OPERATIONS QUALITY ASSURANCE PROGRAM

Georgia Power Company (GPC) has a total quality program to establish and maintain standards of quality covering the engineering, design, procurement, manufacturing, construction, testing, maintenance, repair, refueling, and modifications of applicable structures, components, and systems for VEGP. As the licensee, GPC assumes full responsibility for the quality program and will take appropriate action to guarantee that VEGP is designed, constructed, and operated with sound engineering principles and safe operating practices.

The responsibility for establishing the program policies, goals, and objectives, as summarized below, is vested in the GPC executive vice president-power supply.

A. All participants in the quality assurance program, including suppliers and contractors, shall meet appropriate sections of 10 CFR 50, Appendix B criteria.

B. The program described herein shall be documented by written procedures or instructions.

C. The quality assurance program shall provide control over activities affecting the quality of structures, systems, and components consistent with their importance to safety.

D. Activities affecting quality shall be accomplished under controlled conditions which include the use of appropriate equipment, suitable environmental conditions, and assurance that prerequisites for the given activity have been satisfied.

E. The quality program shall take into account the need for special controls, processes, test equipment, tools, and skills to attain the required quality.

F. Verification of conformance to established requirements shall be accomplished by individuals or groups who do not have direct responsibility for performing the work being verified.

G. The quality program shall provide for indoctrination and training of personnel performing activities affecting quality, as necessary to ensure that suitable proficiency is achieved and maintained.

H. Management shall regularly review the status, adequacy, and implementation of the quality program through the quality assurance auditing process.

This section describes the operations quality assurance program (OQAP) for VEGP. It defines responsibility and authority and prescribes measures for the control and accomplishments of activities affecting the quality of safety structures, systems, and components of VEGP. The OQAP requirements herein are implemented in approved procedures, which provide requirements for the performance of safety-related activities. The OQAP is implemented by GPC and executed by various responsible parties to ensure the plant's safe and reliable operation and to satisfy the quality assurance requirements of Appendix B of 10 CFR 50, as delineated in Regulatory Guide 1.33, Revision 2, Quality Assurance Program Requirements (Operation). American National Standards Institute N18.7-1976, Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants, was used for guidance in developing the OQAP.

The organizational structure of GPC is described in section 13.1. The following subsection amplifies upon section 13.1 with regard to establishment and execution of the OQAP.

17.2.1 ORGANIZATION

The principal elements implementing the OQAP are as follows:

- Corporate organization.
- Nuclear operations.
- Plant staff.
- Engineering and construction services.
- Vogtle Project organization.
- Quality assurance department.

Figure 17.2.1-1 shows the relationship of the above elements involved in the OQAP.

17.2.1.1 Corporation Organization

The executive vice president-power supply is the final management authority responsible for the development, implementation, changes to, and review of the OQAP. These

responsibilities are accomplished through the organization shown in figure 17.2.1-1 and are discussed in the following paragraphs.

GPC's executive vice president-power supply regularly assesses the scope, adequacy, and compliance of the OQAP to 10 CFR 50, Appendix B, through frequent meetings with the general manager-quality assurance and radiological health and safety (GMQA), review of safety review board activities, and assessment of quality assurance audits.

An annual assessment of the effectiveness of the OQAP is performed by the general manager-quality assurance, and results are reported to the executive vice president-power supply.

17.2.1.1.1 Safety Review Board

The safety review board shall be appointed by the executive vice president-power supply for the purpose of advising him in matters related to nuclear power plant safety. Board members shall have competence in various fields of engineering technology and be familiar with nuclear safety, environmental, and regulatory requirements. The safety review board has access to the advice and services of technical specialists within GPC and outside expertise as necessary. Board member responsibilities and authorities are described in the plant Technical Specifications. 8

17.2.1.1.2 Nuclear Operations

The senior vice president-nuclear power and the vice president and general manager-nuclear operations are responsible to the executive vice president-power supply for the implementation of the quality assurance program for plant operations at all nuclear power generating plants in the GPC system. The general manager-Vogtle nuclear operations reports to the vice president and general manager-nuclear operations through the manager-nuclear operations. The manager-nuclear operations assumes the responsibilities of vice president and general manager-nuclear operations in his absence.

The manager-nuclear planning and control reports to the vice president and general manager-nuclear operations. Some of the responsibilities of this position are to provide long range planning and scheduling of maintenance work to be performed at GPC nuclear plants and to provide the long range manpower plan for GPC nuclear plants.

The manager-nuclear training reports to the vice president and general manager-nuclear operations. A few of the responsibilities of this position are to provide the GPC nuclear plants with training programs to ensure compliance with Nuclear Regulatory Commission (NRC) regulations and Institute of Nuclear Power Operations standards and to ensure that nuclear operations personnel have the education, training, and skills to safely and efficiently operate and maintain the plants. 8

The manager-nuclear engineering and chief nuclear engineer is responsible to the vice president and general manager-nuclear operations for day-to-day monitoring of plant activities, special projects as required, licensing support, and interfacing with appropriate companies and organizations in the areas of nuclear fuel management, procurement, and reprocessing.

17.2.1.2 Plant Organization

The plant staff (as described in chapter 13) will perform safety-related activities in accordance with written, approved procedures. Quality assurance requirements will be included in detailed plant procedures. The superintendents and supervisors in the VEGP organization will be responsible for implementation of the OQAP for activities under their purview. The general manager-Vogtle nuclear operations will regularly assess the workload of all departments involved in the OQAP to ensure that a sufficient number of personnel are available for complete and efficient implementation.

17.2.1.2.1 General Manager-Vogtle Nuclear Operations and Assistant Plant Manager(s)

The general manager-Vogtle nuclear operations is responsible to the vice president and general manager-nuclear operations for all activities at the VEGP, including implementation of the OQAP requirements with the exception to controls that are assigned to the quality assurance department. The general manager-Vogtle nuclear operations is also responsible for the safe, reliable, and efficient operation of VEGP. 8

17.2.1.2.2 Quality Control Supervisor

The quality control supervisor is responsible to the general manager-Vogtle nuclear operations for administration and implementation of an effective quality control inspection program at VEGP. Quality control specialists report to the quality control supervisor. The quality control supervisor, or his representative, is involved in day-to-day safety-related

activities. These activities include work planning meetings, plant review board meetings, and routine staff meetings. Quality control personnel have procedural authority to stop work and to control further processing, use, or installation of nonconforming items. 8

17.2.1.2.3 Superintendent of Maintenance

The superintendent of maintenance is responsible for effective implementation of the OQAP of applicable mechanical, electrical, and instrument and controls maintenance of plant equipment, systems, or structures.

17.2.1.2.4 Superintendent of Operations

The superintendent of operations has the responsibility to ensure that the plant is operated in accordance with approved procedures and license requirements.

17.2.1.2.5 Superintendent of Plant Engineering Services

The superintendent of plant engineering services is responsible for providing engineering-related technical services in support of VEGP operations. He shall assist, as required, in the procurement of equipment, materials, and services and shall coordinate review, approval, and closeout of design changes.

17.2.1.2.6 Superintendent of Administration

The superintendent of administration has the responsibility of maintaining the plant documentation files, procedure and change logs, and distribution control for plant-originated procedures, plant review board minutes, and correspondence.

17.2.1.2.7 Materials Supervisor

The materials supervisor is responsible for material and equipment control and material requisitioning to maintain plant stock levels. He is also responsible for receiving, handling, and storing materials.

17.2.1.2.8 Superintendent of Nuclear Training

The superintendent of nuclear training is responsible for the development and implementation of training programs for the

plant staff. He ensures that the VEGP training programs are adequate to provide qualified personnel.

17.2.1.2.9 Superintendent of Regulatory Compliance

The superintendent of regulatory compliance will advise plant management on matters concerning compliance with requirements of operating license, Technical Specifications, approved plant procedures, Security Plan, Emergency Plan, OQAP, and applicable federal, state, and local regulations.

17.2.1.2.10 Superintendent of Health Physics and Chemistry

The superintendent of health physics and chemistry is responsible for the health physics and chemistry program. He is also responsible for the as-low-as-reasonably-achievable program at VEGP. 8

17.2.1.2.11 Plant Review Board

The plant review board shall be comprised of responsible plant department personnel and shall advise the plant manager on matters pertaining to safety-related activities.

17.2.1.3 Quality Assurance Department

The quality assurance department, under the direction of the GMQA, verifies implementation of the OQAP.

The qualifications for the GPC quality assurance department personnel meet the requirements of Regulatory Guide 1.146, Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants, as described in section 1.9.

The minimum qualifications for the GMQA and the VEGP quality assurance manager are that they hold an engineering or equivalent degree and have a minimum of 5 years experience in the areas of engineering, field construction, or plant operation. Two of these 5 years must be in the field of quality assurance, of which at least 6 months must be in the field of nuclear quality assurance experience. 8

The size of the quality assurance organization is based on meeting the commitment for audit coverage required by the Technical Specifications and on experience gained at Hatch Nuclear Plant. The approximate size of the site quality assurance organization is 10 technical people for Unit 1

operation and will increase to approximately 15 when Unit 2 becomes operational.

The corporate quality assurance engineering/support groups provide technical and administrative support to the quality assurance department in the performance of its assigned responsibilities. 8

17.2.1.3.1 General Manager of Quality Assurance and Radiological Health and Safety

The GMQA, located at the general office, is responsible to the executive vice president-power supply for assuring implementation of the OQAP and for managing activities of the GPC quality assurance organization. The GMQA can effectively assure conformance to the quality assurance requirements and is free from undue influence and from responsibility for cost and schedules. The GMQA has a staff at the general office and a staff located at the site to conduct quality assurance activities. The GMQA has been given authority by the executive vice president-power supply to stop, in a timely manner, work on the VEGP site which is not being performed in accordance with the provisions of the OQAP. The GMQA keeps management informed on the effectiveness and implementation of the OQAP through distribution of audit reports and other documents. 8

Specific duties and responsibilities of the GMQA are as follows:

A. Manages the GPC quality assurance department.

B. Develops the quality assurance portions of OQAP to conform to approved policies.

C. Approves the GPC VEGP Quality Assurance Manual and changes thereto.

D. Maintains close liaison with the general manager-nuclear operations to ensure that program policies and procedures are being implemented and enforced. 8

E. Keeps the executive vice president-power supply informed orally on routine matters, but reports significant items immediately, both orally and in writing. In addition, major audit reports, including summaries of audits by major contractors, are forwarded to the executive vice president.

F. Informs management of quality assurance activities through distribution of audit reports and other correspondence.

17.2.1.3.2 VEGP Quality Assurance Manager

The VEGP quality assurance manager is responsible for ensuring that the approved quality assurance programs are implemented by all participants. The VEGP quality assurance manager is assigned by the GMQA. The VEGP quality assurance manager has written stop-work authority. This authority provides for the control of further processing, delivery, installation of nonconforming materials, or operation of a nuclear safety system or reactor system when such further processing, delivery, installation, or operation may jeopardize plant or personnel safety or may lead to the deterioration of a nuclear safety system. This authority is defined in the VEGP Quality Assurance Manual. 8

Duties and responsibilities of the VEGP quality assurance manager include but are not limited to the following:

A. Manages the VEGP quality assurance organization.

B. Assures that satisfactory quality assurance programs are established, maintained, and properly coordinated between the GMQA and plant management.

C. Reviews and concurs with quality assurance programs of contractors (Bechtel Power Corporation (BPC), Southern Company Services (SCS), Westinghouse, and plant contractors) including changes thereto prior to the start of work governed by such programs.

D. Audits or verifies accomplishment of delegated audits of the quality assurance programs of GPC, BPC, Westinghouse, SCS, and suppliers of materials, equipment, or services, to ensure compliance with approved quality assurance programs and procedures.

E. Processes correspondence from NRC Directorate of Inspection and Enforcement.

F. Assures that site activities conform to quality assurance program requirements and procedures.

G. Assures that audit, surveillance, and monitoring requirements are carried out on project quality-related functions.

H. Maintains and controls the VEGP Quality Assurance Manual.

I. Ensures the proper implementation of the supplier quality surveillance functions/activities and changes thereto.

operation and will increase to approximately 15 when Unit 2 becomes operational.

The corporate quality assurance engineering/support groups provide technical and administrative support to the quality assurance department in the performance of its assigned responsibilities. 8

17.2.1.3.1 General Manager of Quality Assurance and Radiological Health and Safety

The GMQA, located at the general office, is responsible to the executive vice president-power supply for assuring implementation of the OQAP and for managing activities of the GPC quality assurance organization. The GMQA can effectively assure conformance to the quality assurance requirements and is free from undue influence and from responsibility for cost and schedules. The GMQA has a staff at the general office and a staff located at the site to conduct quality assurance activities. The GMQA has been given authority by the executive vice president-power supply to stop, in a timely manner, work on the VEGP site which is not being performed in accordance with the provisions of the OQAP. The GMQA keeps management informed on the effectiveness and implementation of the OQAP through distribution of audit reports and other documents. 8

Specific duties and responsibilities of the GMQA are as follows:

A. Manages the GPC quality assurance department.

B. Develops the quality assurance portions of OQAP to conform to approved policies.

C. Approves the GPC VEGP Quality Assurance Manual and changes thereto.

D. Maintains close liaison with the general manager-nuclear operations to ensure that program policies and procedures are being implemented and enforced. 8

E. Keeps the executive vice president-power supply informed orally on routine matters, but reports significant items immediately, both orally and in writing. In addition, major audit reports, including summaries of audits by major contractors, are forwarded to the executive vice president.

F. Informs management of quality assurance activities through distribution of audit reports and other correspondence.

17.2.1.3.3 Quality Assurance Site Manager

Located at the plant site and reporting to the VEGP quality assurance manager, the quality assurance site manager manages the quality assurance field group.

17.2.1.3.4 Quality Assurance Field Group

The quality assurance department personnel have written authority to stop work on a system, structure, or component that affects nuclear safety, if the work is not in accordance with provisions of the OQAP. Disputes arising from differences of opinion between quality assurance personnel and other department personnel will be resolved by the lowest level of management possible. If necessary, the executive vice president will make the final disposition. The GMQA shall regularly assess the quality assurance department workload to ensure a sufficient number of personnel are available for complete and efficient implementation of their quality assurance department responsibilities. Specific duties and responsibilities of the quality assurance field group (headed by the quality assurance site manager) are as follows: 8

A. Prepares annual schedule and performs planned audits of organizations and activities (GPC and contractors).

B. Provides the VEGP quality assurance manager with weekly written activity reports.

C. Maintains open-items list from NRC inspections and quality assurance field group audits; follows up until resolved and closed out.

D. Acts as site contact with the NRC Department of Inspection and Enforcement.

E. The quality assurance department participates in the development process for plant procedures. This includes comparison with Hatch Nuclear Plant procedures, commitments to enhance consistency of overall procedure development, and assurance that appropriate quality assurance program elements are included in procedures. 8

Quality assurance department personnel have access to meetings where quality matters are discussed. The VEGP quality assurance manager shall designate the types of meetings his staff or representative(s) from his staff will routinely attend, including day-to-day work planning meetings and staff meetings.

17.2.1.4 Engineering

The GPC power supply engineering and services department, under the direction of the vice president and chief engineer-power supply engineering and services is responsible for providing engineering and technical support to the various power supply organizations. During the operation of VEGP, the power supply engineering and services department is responsible for the management of design engineering support, the qualification of suppliers, and the review of procurement documents for quality requirements.

SCS is the architect/engineer for VEGP during operation. The GPC power supply engineering and services department Vogtle project manager serves as the interface between the GPC nuclear power department and SCS for coordination and direction of engineering support provided by SCS. In addition, SCS provides quality assurance support, including audits, supplier qualification and surveillances, and engineering procedure reviews. SCS also administers for VEGP the contract for engineering services provided by BPC. Activities within the SCS work scope are governed by the SCS VEGP Operational Support Policy and Procedures Manual and the SCS Engineering Policy and Procedures Manual. These procedures are reviewed and concurred with by the SCS quality assurance organization. The GPC GMQA performs or causes to be performed audits of these functions. 8

BPC is under contract to SCS to provide architect/engineering services. The work scope includes plant design, development of purchase recommendations for equipment and materials, administration of purchase orders resulting from SCS-developed purchase recommendations such as the nuclear steam supply system, and support of the SCS supplier surveillance functions by providing procurement surveillance services for selected Q-list items. Activities within the BPC work scope are governed by the BPC VEGP Nuclear Quality Assurance Department Procedures Manual and Vogtle Project Engineering Procedures Manual. The GPC GMQA performs or causes to be performed audits of these procedures and functions.

17.2.1.5 Vogtle Project

The vice president and general manager-Vogtle Project is responsible to the senior vice president-nuclear power for implementation of the OQAP for performing construction activities at an operating nuclear power plant.

17.2.2 OPERATIONS QUALITY ASSURANCE PROGRAM

The operations quality assurance program (OQAP) requirements and controls are established to comply with the requirements of 10 CFR 50, Appendix B and 50.55a, as described in the Final Safety Analysis Report.

The VEGP Quality Assurance Manual, approved by the executive vice president-power supply, ensures that the OQAP meets the criteria of 10 CFR 50, Appendix B. The Quality Assurance Manual specifically addresses each criterion of Appendix B and lists the key implementing plant procedures. The Quality Assurance Manual will be updated and implementing procedures will be issued at least 90 days prior to fuel load. 8

The policies, goals, and objectives of the OQAP are summarized in the introductory paragraph to section 17.2. The items to be covered under the OQAP are designated as "Q" items and are listed for general guidance in table 3.2.2-1. This list is prepared and kept current by the architect/engineer during plant design, construction, and startup, with control maintained by the Georgia Power Company (GPC) nuclear operations department during plant operation. The following guidance is considered when specifying quality requirements: 8

- The importance of malfunction or failure of the item to plant safety or reliability.
- The design and fabrication complexity or uniqueness of the item.
- The need for special controls and surveillance over process and equipment.
- The degree to which functional compliance can be demonstrated by inspection or test.
- The quality history and degree of standardization of the item.

Safety-related activities will be carried out under suitably controlled conditions, including use of written, approved procedures and appropriate equipment, proper environmental conditions, and assurance that prerequisites have been satisfied. Quality affecting procedures required for the administration of the OQAP are reviewed for consistency with program commitments and corporate policies and are properly documented and controlled. These policies are documented and approved by the general manager-Vogtle nuclear operations. Quality policies and procedures are mandatory requirements which must be implemented and enforced. Documented procedures control 8

the actions of the various organizations involved such as quality assurance, quality control, engineering, and operations, including actions to determine the extent of quality assurance control to be applied. These activities include but are not limited to certain aspects of the following as they apply to safety-related structures, equipment, and systems: 8

- Administrative controls and reporting requirements.
- Health physics and radiation protection.
- Environmental monitoring and environmental technical specifications.
- Plant chemistry.
- Radioactive waste control.
- Reactor and plant operations.
- Materials control (procurement, storage, and issue).
- Quality control (nondestructive examination, inspection, etc.).
- Surveillance program.
- Test equipment calibration and control.
- Security Plan and procedures.
- Emergency Plan and procedures.
- Design changes and plant modification control.
- Departmental training programs.
- Maintenance programs.
- Fuel handling and special nuclear material control.
- Inservice inspection program.
- Procedure control and review.
- Records management and document control.
- Fire protection program (subsection 9.5.1).
- Corrective action programs.
- Computer code programs.

17.2.2 OPERATIONS QUALITY ASSURANCE PROGRAM

The operations quality assurance program (OQAP) requirements and controls are established to comply with the requirements of 10 CFR 50, Appendix B and 50.55a, as described in the Final Safety Analysis Report.

The VEGP Quality Assurance Manual, approved by the executive vice president-power supply, ensures that the OQAP meets the criteria of 10 CFR 50, Appendix B. The Quality Assurance Manual specifically addresses each criterion of Appendix B and lists the key implementing plant procedures. The Quality Assurance Manual will be updated and implementing procedures will be issued at least 90 days prior to fuel load. 8

The policies, goals, and objectives of the OQAP are summarized in the introductory paragraph to section 17.2. The items to be covered under the OQAP are designated as "Q" items and are listed for general guidance in table 3.2.2-1. This list is prepared and kept current by the architect/engineer during plant design, construction, and startup, with control maintained by the Georgia Power Company (GPC) nuclear operations department during plant operation. The following guidance is considered when specifying quality requirements: 8

- The importance of malfunction or failure of the item to plant safety or reliability.
- The design and fabrication complexity or uniqueness of the item.
- The need for special controls and surveillance over process and equipment.
- The degree to which functional compliance can be demonstrated by inspection or test.
- The quality history and degree of standardization of the item.

Safety-related activities will be carried out under suitably controlled conditions, including use of written, approved procedures and appropriate equipment, proper environmental conditions, and assurance that prerequisites have been satisfied. Quality affecting procedurer required for the administration of the OQAP are reviewed for consistency with program commitments and corporate policies and are properly documented and controlled. These policies are documented and approved by the general manager-Vogtle nuclear operations. Quality policies and procedures are mandatory requirements which must be implemented and enforced. Documented procedures control 8

Measures shall be established to ensure that major contractors performing safety-related activities at or in association with VEGP have an adequate quality assurance/quality control program commensurate with the scope of their activities. Applicable sections of American National Standards Institute N18.7-1976 will be required of contractors and suppliers to the degree necessary to ensure compliance with the OQAP.

It is the responsibility of the GPC power supply engineering services, purchasing department, and Southern Company Services, Inc., to comply with the OQAP for plant-associated activities such as procurement, qualification of suppliers, new plant design, and the necessary redesign or evaluation of any of the safety-related systems, structures, or components. 8

With complete support of GPC management to assist in the assignment, the general manager-Vogtle nuclear operations shall have the overall site responsibility for developing and implementing the OQAP with the exceptions to controls that are assigned to the quality assurance department. The quality assurance department conducts independent audits of quality activities as necessary to assess the scope, status, implementation, and effectiveness of the OQAP. These audits will be conducted in accordance with predetermined schedules, with audit results documented in reports and a followup system utilized to ensure corrective action is taken when necessary and to verify implementation. The general manager-quality assurance transmits the results of the audit findings to the executive vice president-power supply. 8 8

Measures shall be provided for indoctrination and training of personnel performing safety-related activities to ensure that the individual attains quality in job performance and complies with GPC quality policies and procedures. (See section 13.2 for training description.)

Quality assurance department personnel, in accordance with quality assurance department procedures, will receive formal and on-the-job training in quality assurance policies, requirements, procedures, techniques, plant operation, maintenance, nonconformance control, and auditing. These procedures also prescribe methods for documenting the accomplishments of training.

Records of training and qualifications of quality assurance department personnel will be maintained by the general manager-quality assurance and will document compliance with appropriate requirements. Personnel of departments other than quality assurance, in addition to the training described in section 13.2, will receive quality assurance indoctrination which includes quality assurance policies and procedures. In

addition to this indoctrination, plant operators, engineering maintenance personnel, quality control personnel, and health physics personnel will receive instruction in their areas of the OQAP. The superintendent of nuclear training will schedule, evaluate, and maintain records of training and indoctrination of plant personnel. Records of training programs shall include objectives, content of program, attendees, and date of attendance. 8

The quality assurance program for design and construction establishes the organization and basic controls to be applied during equipment turnover, preoperational test preparation, running of the test, and review of the results. GPC construction department personnel will provide assistance to GPC nuclear operations personnel during system checkout and construction acceptance testing, as controlled by site procedures. Audits will be performed by quality assurance site personnel to ensure that procedure requirements and proper turnover are being implemented. Preoperational test procedures will be written by technical personnel familiar with the system design and will be reviewed for adequate control to ensure quality. Test supervisors will be selected, and quality assurance instruction will be provided to these supervisors. Fuel loading procedures will be reviewed for adequate control to ensure quality, and specified audits of the loading activities will be performed. Startup and power ascension testing will be controlled by written test procedures, reviewed for adequate control to ensure quality; certain test requirements will have to be successfully completed, documented, and reviewed before continuing to the next test. Audits of startup and power ascension tests will ensure these requirements are being implemented. Chapter 14 and the VEGP Startup Manual provide additional details on these programs and requirements. 8

Control shall be established for turnover of responsibilities and records from the nuclear steam supply system (NSSS) vendor (Westinghouse) and the architect/engineer (Bechtel Power Corporation) to GPC. These controls will ensure that program requirements previously implemented by the NSSS vendor and the architect/engineer are implemented under the OQAP. This turnover will be performed to written procedures, and appropriate audits will assure control is maintained. Written procedures will be in effect in sufficient time to permit review for quality requirements before actual turnover.

The OQAP requirements and controls shall be implemented at least 90 days prior to fuel load and are in effect through the operational life of the plant. Changes that reduce commitments to the OQAP will be submitted in writing to the Nuclear Regulatory Commission (NRC) for approval prior to implementation. 8

Changes to the OQAP description that do not reduce the commitments will be submitted to the NRC at least annually. The commitments of this subsection are audited according to the quality assurance audit program, which is described in subsection 17.2.18. 8

17.2.3 DESIGN CHANGE CONTROL

Measures are established to ensure that, for design activities associated with modifications to the operating plant, applicable regulatory requirements for design bases are properly translated into specifications, drawings, and procedures. The quality assurance requirements for design change control are consistent with the position of Regulatory Guide 1.64, Quality Assurance Requirements for the Design of Nuclear Power Plants, as discussed in section 1.9. 8

Plant management shall have the responsibility for controlling, approving, and implementing plant design modifications after turnover. Written procedures will identify the positions or organizations responsible for design verification and define their authority and responsibility. The plant review board shall review all proposed modifications to safety-related systems to determine whether an unreviewed safety question (10 CFR 50.59) is involved. Unreviewed safety questions and the safety evaluations of design changes and procedure changes for safety-related systems shall be reviewed by the safety review board.

If plant management determines that engineering assistance is required, the change request shall be forwarded to an appropriate engineering organization for evaluation. The detailed engineering will be performed by an approved architect/engineering organization. The responsible engineering organization including the verifier shall have access to pertinent background information, have demonstrated competence in the specific design area, and have an understanding of the requirements of the original design. 8

Design procedures shall be approved by the appropriate authorities before any design modifications are performed. These procedures will also ensure that the design control is commensurate with the original design and that proper design review and verification are performed. Measures are provided to ensure that the designer is provided with the latest revisions to drawings, specifications, and other applicable design documents.

Design changes made to VEGP are accomplished in a planned and controlled manner in accordance with written, approved procedures. These procedures include provisions as necessary to ensure that:

A. Design documents, specifications, drawings, calculations, procedures, and instructions reflect applicable regulatory requirements and design bases. 8

B. Design documents specify quality requirements or reference quality standards as necessary.

C. There is adequate review of suitability of materials, parts, equipment, and processes which are essential to the safety-related functions of structures, systems, and components.

D. Materials, parts, and equipment which are standard commercial (off the shelf) or which have been previously approved for a different application are evaluated for suitability prior to selection.

E. Design documents and plant procedures are revised to reflect design modifications.

F. Internal and external design interfaces between organizations participating in design modifications are adequately controlled. including the review, approval, release, and distribution of design documents and revisions. These controls ensure that structures, systems, and components are compatible geometrically, functionally, and with processes and the environment. 8

G. Computer codes used for design computation are verified and certified for their intended use.

The above controls are applied as necessary to such aspects of design as: reactor physics, seismic stress, thermal, hydraulic, radiation, and accident analyses; compatibility of materials; and accessibility for inservice inspection, maintenance, and repair.

The adequacy of design changes shall be verified by the performance of design reviews, alternate calculations, or qualification testing. The control measures specified herein for control of design verification activities are as follows:

A. Personnel responsible for design verification do not include the original designer. Verification may be performed by the same organization responsible for the original design change.

B. Written procedures identify the positions or organizations responsible for design verification and define their authority and responsibility. In addition, procedures will identify the verifier responsibilities, the area to be verified, the pertinent considerations to be verified, and the extent of documentation. 8

C. Qualification tests to verify the adequacy of design are performed as applicable using the most adverse specified design conditions practical to provide or simulate.

D. Design changes are reviewed to ensure that design criteria are defined and that inspection and test criteria are identified.

E. New or innovative designs will be subjected to comprehensive design review, which may include calculational checks or a testing program under adverse design conditions.

F. Written procedures will require a documented check to verify the dimensional accuracy and completeness of design drawings and specifications.

G. Design verification, if other than by qualification testing of a prototype or lead production unit, is completed prior to release for procurement, manufacturing, and installation or to another organization for use in other design activities. In those cases where this timing cannot be met, the design verification may be deferred, providing that the justification for this action is documented and that the unverified portion of the design output document and all design output documents, based on the unverified data, are appropriately identified and controlled. In all cases, verification is completed prior to relying upon the item to perform its function. 8

There is a comprehensive audit system to verify that the design control system maintained by the responsible organizations during the operation of the VEGP is adequate and functioning properly.

Any errors or deficiencies found in the design process or the design itself are documented and corrective action taken as described in subsection 17.2.16.

Design documents and revisions thereto are controlled and distributed as described in subsection 17.2.6. Records of design activities and design changes are collected, stored, and maintained in a systematic manner to prevent inadvertent use of superseded documents.

VEGP plant procedures will require that plant personnel are made aware of design changes/modifications which may affect the performance of their duties. Methods by which plant personnel are made aware will include procedure revision training, night orders, and structured training for major modifications. 8

Compliance with design control commitments is ensured by the quality assurance audit program, which is described in subsection 17.2.18. 8

17.2.4 PROCUREMENT DOCUMENT CONTROL

The quality requirements for the control of documents prepared by Georgia Power Company or its designated agents, for safety-related components, materials, and services are consistent with the provisions of Regulatory Guide 1.123, Quality Assurance Requirements for Control of Procurement of Items and Services for Nuclear Power Plants, as described in section 1.9. The vice president and general manager-nuclear operations is responsible for procurement planning of VEGP.

To satisfy the quality assurance requirements for procurement document control, the following specific requirements shall be implemented. Measures shall be established to ensure:

A. Procedures are established delineating the sequence of actions to be accomplished in the preparation, review, approval, and control of procurement documents. The general manager-Vogtle nuclear operations, in conjunction with the vice president-engineering and services, is responsible for the preparation, review, approval, and control of procurement documents. 8

B. A review and concurrence of the adequacy of quality assurance requirements stated in procurement documents is performed by qualified personnel knowledgeable in the quality assurance requirements. Plant procedures will define training requirements for ensuring knowledge of quality assurance requirements. This review is to determine that all quality assurance requirements are correctly stated, can be inspected and controlled, and provide adequate acceptance and rejection criteria and that the procurement document has been prepared in accordance with quality assurance program requirements.

C. The person performing the review will be an individual independent of the procurement document originator. Documented evidence of the review and approval of procurement documents is provided and available for verification.

D. Procurement documents identify those 10 CFR 50, Appendix B, requirements that must be complied with and described in the supplier's quality assurance program. This quality assurance program or portions thereof shall be reviewed and concurred with by the general manager-Vogtle nuclear operations, in conjunction with the vice president-engineering and services, and qualified personnel knowledgeable 8

in quality assurance prior to implementation of activities affected by the program.

E. Procurement documents contain or reference applicable design basis technical requirements including regulatory requirements, component and material identification, drawings, specifications, codes and industrial standards, including their revision status, test and inspection requirements, and special process instructions, for activities such as fabrication, cleaning, erecting, packaging, handling, shipping, storing, and inspecting.

F. Procurement documents contain applicable requirements which identify the documentation to be prepared, maintained, submitted, and made available to the general manager-Vogtle nuclear operations for review and/or approval, such as drawings, specifications, procedures, inspection and fabrication plans, inspection and test records, personnel and procedure qualifications, materials, and chemical and physical test results. 8

G. Procurement documents contain the requirements for the retention, control, and maintenance of vendor records.

H. Procurement documents contain the procuring agency's right of access to vendor's facilities and records for source inspection and audit.

I. Changes and/or revisions to procurement documents are subject to the same review and approval requirements as the original documents.

J. Procurement documents for spare or replacement parts of safety-related structures, systems, and components are reviewed for adequacy by qualified personnel knowledgeable in quality assurance requirements. The review is to determine similarity, compatibility, and inclusion of the quality assurance requirements and acceptance criteria of the original item. 8

Assurance that the requirements for procurement document control are implemented will be provided by the audit program described in subsection 17.2.18.

17.2.5 INSTRUCTIONS, PROCEDURES, AND DRAWINGS

Activities affecting quality shall be prescribed by and accomplished in accordance with documented instructions, procedures, or drawings. The general manager-Vogtle nuclear operations is responsible for ensuring that procedures are prepared and followed and that personnel are trained on the procedures. They shall contain appropriate quantitative (such as dimensions, tolerances, and operating limits) or qualitative (such as workmanship and samples) acceptance criteria for determining that important activities have been satisfactorily accomplished. The requirements dealing with instructions, procedures, or drawings are consistent with the provisions of Regulatory Guide 1.30, Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment; Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation); and Regulatory Guide 1.116, Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Services, as described in section 1.9. 8

17.2.5.1 Plant Procedures, Instruction, and Drawings

The VEGP procedure manuals will contain procedures which shall be used for periodic tests and calibrations, special processes, modifications, maintenance, and other plant activities on safety-related systems, equipment, or structures. Certain procedures important to safety shall be reviewed by the plant review board before being signed by a member of plant management. Inspection plans, tests, calibrations, special processes, maintenance, modifications, repair procedures, and changes thereto will be reviewed and concurred with by a person knowledgeable in quality assurance requirements. Plant procedures will define training requirements for ensuring knowledge of quality assurance requirements. 6

Written administrative procedures will ensure proper control of instructions such as temporary procedure changes and standing orders. These instructions will be of limited scope and will be issued for limited time periods to ensure proper requirements, included in the procedures, are not bypassed or neglected.

Plant drawings will reflect the properly reviewed and approved configuration of the plant. Changes will be as a result of design changes (subsection 17.2.3.) or "as-builts" which will be controlled by written procedures the same as drawings until properly revised drawings are received. The design organization will implement design and drawing control on design documents through written procedures.

17.2.5.2 Other Procedures

Each contractor performing quality-related activities shall have properly reviewed and approved quality assurance programs or procedures or function under the control of the operations quality assurance program. These programs or procedures shall be reviewed to ensure that they meet the quality assurance requirements contained herein. 8

Confirmation that these instructions and procedures are properly implemented is accomplished through activities performed by the quality assurance organization. See subsection 17.2.18 for details.

17.2.6 DOCUMENT CONTROL

Herein are contained the requirements for the control of documents that prescribe activities affecting quality. The docoments which are to be controlled include:

A. Manufacturing, design, construction, and installation drawings for safety-related structures, systems, or components.

B. Approved procurement documents for safety-related structures, systems, or components.

C. Plant procedures which implement requirements of the operations quality assurance program.

D. Maintenance, modification, and operating procedures which implement requirements of the operations quality assurance program.

E. Final Safety Analysis Report, Emergency Plan, Security Plan, environmental reports, Technical Specifications, and Operating License Stage Environmental Report.

F. Inspection and test procedures for safety-related structures, systems, or components.

G. Design documents (e.g., calculations, specifications, and analyses) including documents related to computer codes.

H. Instructions and procedures for such activities as fabrication and installation. 8

I. As-built documents.

J. Quality assurance and quality control manuals.

K. Deficiency reports.

The requirements for document control are consistent with the position of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), as described in section 1.9. Provisions are included which require that:

A. Documents and changes thereto are reviewed for adequacy and approved for release by authorized personnel in accordance with written procedures. These procedures identify those positions responsible for reviewing, approving, and issuing documents and revisions thereto. Measures are also established to

review documents prior to release to ensure that the quality assurance requirements are sufficiently, clearly, and accurately stated. The individuals responsible for the quality assurance requirement review shall be an individual other than the person who generated the document. Individuals authorized to perform the quality assurance requirement review shall be knowledgeable of the quality assurance requirements. The approving authority is responsible for implementing review of the document for quality assurance requirements. 8

B. Documents and changes thereto are promptly distributed to ensure availability prior to commencement of work. "As-built" documents are prepared in a timely manner to accurately reflect the actual plant design.

C. Changes to documents are reviewed and approved by the same organization that performed the original review and approval unless another qualified organization is designated.

D. Master status lists identifying the current revision of documents are periodically updated and utilized to preclude the use of superseded documents. Procedures are established for control of document revision. These procedures will specify the types of documents to be controlled and the periodic updating and distribution of controlled documents. 8

E. Obsolete or superseded documents are destroyed or identified to prevent their inadvertent use.

The superintendent of administration is responsible to plant management for ensuring that plant personnel are provided with current documents. The responsible supervisors are responsible for ensuring that the latest revision of appropriate documents is being used to perform safety-related activities. Documents controlled by offsite organizations will receive control comparable to that of site documents.

The quality assurance department will audit activities to determine proper implementation of the quality requirements contained herein. The quality assurance audit function is described in subsection 17.2.18.

17.2.7 CONTROL OF PURCHASED MATERIAL, EQUIPMENT, AND SERVICES

Spare and replacement parts of safety-related structures, systems, and components are subject to quality assurance program controls in place when the procurement is made and to technical requirements that comply with Final Safety Analysis Report requirements. Expendable or consumable items will be procured in accordance with the provision described herein. The requirements for the control of purchased materials, equipment, and services are consistent with the positions of Regulatory Guide 1.38, Quality Assurance Requirements for Packing, Shipping, Receiving, Storage, and Handling of Items for Water-Cooled Nuclear Power Plants, and Regulatory Guide 1.123, Quality Assurance Requirements for Control of Procurement of Items and Services for Nuclear Power Plants, as described in section 1.9. 8

17.2.7.1 Supplier Qualification

The vice president and general manager-nuclear operations is responsible for ensuring qualification of suppliers of safety-related equipment, materials, or services, including spare and replacement parts, for the VEGP. These activities are in accordance with the operations quality assurance program. Georgia Power Company (GPC) shall review the effectiveness of quality control of approved suppliers or subsuppliers at intervals designed to maintain confidence in the suppliers' programs. The review intervals shall be determined according to the complexity of the product or services received from these suppliers. These reviews will also include periodically evaluating the suppliers' certificates of conformance by audits, independent inspections, or tests to ensure they are valid. Prior to accepting a prospective supplier as a qualified GPC nuclear supplier, qualified personnel will evaluate the prospective supplier's capability to provide services or products of acceptable quality based on one or more of the following: 8

A. The supplier's capability to comply with the elements of 10 CFR 50, Appendix B, that are applicable to the type of material, equipment, or services being procured.

B. A review of previous records and performance of suppliers who have provided similar articles of the type being procured.

C. A survey of the supplier's facilities and quality assurance program to determine the capability to supply a product which meets the design, manufacturing,

and quality assurance requirements. If a survey is performed, the results will be documented and filed. The method used and information analyzed to qualify a supplier will also be documented. Where surveys or audits cannot be conducted, acceptable alternatives will be provided.

Plant procedures will require that procurement documents specify:

A. Documentation that identifies the purchased item and the specific procurement requirements (e.g., codes, standards, and specifications) met by the item. 8

B. Documentation identifying any procurement requirements that have not been met.

C. A description of those nonconformances from the procurement requirements dispositioned "accept as is" or "repair."

17.2.7.2 Evaluation Process

The evaluation of suppliers, including spare and replacement parts for safety-related systems and surveillance during fabrication, inspection, testing, and shipment, shall be performed in accordance with procedures established by the vice president and general manager-nuclear operations. These procedures shall include the following: 8

A. Instructions that specify the characteristics or processes to be witnessed, inspected or verified, and accepted; the method of surveillance and the extent of documentation required; and those responsible for implementing these instructions and releasing documentation.

B. Audits and surveillance which ensure that the supplier complies with the quality requirements. Surveillance shall be performed on those items where verification of procurement requirements cannot be determined upon receipt.

17.2.7.3 Receiving Inspection

Receipt inspections at VEGP are performed in accordance with written procedures to ensure that:

A. Materials, equipment, or components are properly identified and traceable to associated documentation.

Review of documentation required by the purchase order is performed by quality control. 8

B. Inspections, tests, and other specified records attesting to the acceptance of materials, equipment, and components are completed and available at VEGP prior to installation or use.

C. Materials, equipment, and components are inspected and judged acceptable in accordance with predetermined inspection instructions prior to installation or use.

Items accepted and released are identified as to their inspection status prior to forwarding them to a controlled storage area or releasing them for installation or further work. 8

Nonconforming items are clearly identified, controlled, and segregated where practical, until proper disposition is made.

For commercial (off the shelf) items where specific quality assurance controls appropriate for nuclear applications cannot be imposed in a practical manner, special quality verification requirements shall be established to provide the necessary assurance of the item.

The quality assurance department will audit the control of purchased materials, equipment, and services to ensure proper implementation of the requirements. See subsection 17.2.18 for a description of the quality assurance audit system.

17.2.8 IDENTIFICATION AND CONTROL OF MATERIALS, PARTS, AND COMPONENTS

8

The quality assurance requirements for the identification and control of safety-related materials, parts, and components, including spare or replacement parts, are consistent with the position of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), and Regulatory Guide 1.38, Quality Assurance Requirements for Packing, Shipping, Receiving, Storage, and Handling of Items for Water-Cooled Nuclear Power Plants, as described in section 1.9.

Materials, parts, and components will be identified and controlled to prevent the use of incorrect or defective items. The location and method of identification shall not affect the quality or the function of the item.

Procedures implementing requirements for the identification and control of materials (including consumables), parts, and components provide for the following:

A. Verification that the items received at VEGP are properly identified and can be traced to the appropriate documentation, such as drawings, specifications, purchase orders, manufacturing and inspection documents, nonconformance reports, or mill test reports, or can be identified by a manufacturer's catalog.

B. Verification of item identification consistent with the inventory control system and traceable to documentation which identifies the proper uses or applications of the item.

The plant staff is responsible for the identification and control of materials, parts, and components which are received, stored, installed, and used at VEGP. The quality control department, which is responsible for receipt inspection, and warehouse personnel, who are responsible for storing and releasing items, ensures the verification and documentation of correct item identification prior to release for fabrication, assembly, shipment, and installation. Plant administrative procedures shall describe plant staff activities and responsibilities for identifying and controlling this equipment. 8

The quality assurance department will audit the above activities. See subsection 17.2.18 for description of audit activities.

17.2.9 CONTROL OF SPECIAL PROCESSES

The requirements for the control of special processes, which are those processes where direct inspection is impossible or disadvantageous, such as welding, heat treating, nondestructive testing, brazing, chemical cleaning, electroplating, and protective coating, are consistent with the position of Regulatory Guide 1.30, Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment; Regulatory Guide 1.37, Quality Assurance Requirements for Cleaning of Fluid Systems and Associated Components of Water-Cooled Nuclear Power Plants; and Regulatory Guide 1.58, Qualification of Nuclear Power Plant Inspection, Examination, and Testing Personnel, as described in section 1.9. 3 8

Activities dealing with special processes shall be performed by qualified personnel using proper equipment and in accordance with written, approved procedures. These personnel and procedures will be qualified in accordance with the applicable code requirements. These qualifications, along with the approved procedures, material specifications, and other quality assurance documents, including verification, are available in the plant documentation file.

Qualification of special processes, equipment, and personnel is the responsibility of the superintendents and supervisors for activities under their purview. Qualified test laboratories and consultants may be used in qualification of special processes. Procedures shall be developed which delineate the requirements for special processes. These procedures will specify the responsibilities of the quality control department for control of the special processes through the use of inspection hold points and the performance of nondestructive testing. These procedures will ensure recording evidence of acceptable accomplishment of special processes using qualified procedures and personnel and suitable and controlled equipment. 8

Audits of special processes, personnel qualifications, procedures, and records will be performed as described in subsection 17.2.18.

17.2.10 INSPECTIONS

A quality control inspection program to verify conformance of activities affecting quality shall be implemented at VEGP. The requirements of this program shall be consistent with the position of Regulatory Guide 1.30, Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment; Regulatory Guide 1.58, Qualifications of Nuclear Power Plant Inspection, Examination, and Testing Personnel; and Regulatory Guide 1.116, Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems, as described in section 1.9.

Inspection activities shall be performed to identify quality problems for safety-related work activities during the operation phase of VEGP as applicable. If inspection of an item or work operation is impossible or disadvantageous and it is necessary to ensure its quality, indirect control by inprocess monitoring of the work will be performed. Both inspection of work products and inprocess monitoring of the work will be performed when control is inadequate without both. 8

Inspection at VEGP will be performed in accordance with written, approved procedures, instructions, or checklists and shall contain requirements for maintaining the following records:

A. Identification of characteristics and activities to be inspected.

B. Description of the method of inspection.

C. Inspector or data recorder identification.

D. Acceptance and rejection criteria.

E. Identification of any required procedures, drawings, or specifications.

F. Date and results of inspection.

G. Evidence of acceptability of results.

H. Information related to conditions adverse to quality.

I. Action taken to resolve any discrepancy noted.

Plant procedures require that approved calibrated test equipment be used for tests or inspections of safety-related equipment or systems. The accuracy requirements of inspection 8

and test equipment and the criteria for determining when a test or inspection is to be performed are contained in the established plant procedures.

The quality control supervisor is responsible to plant management for administering and implementing tests and inspections assigned to the quality control department. He is also responsible for analyzing the results of applicable inspections performed at VEGP. Inspections are performed by quality control specialists (qualifications discussed in subsection 13.1.3) who are independent of the individuals performing the activity being inspected. Plant management ensures that quality control specialists and any other personnel performing inspection activities are qualified, and qualification records are documented and kept current. The training and qualification of these personnel will be verified through written examinations, proficiency testing, or oral examination. Documented evidence of qualification for these personnel will indicate the function which the individual is qualified to perform. Proficiency of these personnel is maintained by retraining and reexamining in accordance with applicable codes, standards, and/or procedures. 8

The criteria for determining the size of the quality control organization is based on known or anticipated tasks which require quality control inspection and other functions based on experience gained at Hatch Nuclear Plant. The approximate number of technical personnel planned for the quality control organization during normal plant operation is 25, which may be augmented by contractor personnel during outages.

The quality control supervisor and quality control specialists have written stop-work authority, including the authority to prevent equipment or systems from being returned to service if the activity was not performed in accordance with an approved procedure, specification, or drawing. If specified inspection hold points/witness points, requiring witnessing or inspecting by an inspector and beyond which work is not to proceed without inspector approval, are necessary, the specific hold points will be indicated in the work procedure. If at these checkpoints the activity is found to be unsatisfactory, further processing of the activity is suspended until the problem is resolved. Procedures requiring inspection criteria will be reviewed by qualified personnel from quality control prior to performance of the work. This review will include a check for the need for inspection, identification of inspection personnel, and documentation of inspection results. Further, this review will ensure that inspection requirements, methods, and acceptance criteria have been identified. Quality control involvement in day-to-day work planning meetings and staff meetings should

identify procedures issued for safety-related work which have not had inspection criteria included.

The quality assurance audit system, described in subsection 17.2.18, ensures that the foregoing requirements are implemented.

17.2.11 TEST CONTROL

Appropriate tests are conducted and documented to ensure satisfactory performance of structures, systems, and components. Plant management is responsible for the conduct of plant tests and will ensure that the plant personnel adhere to the written, approved procedures. Safety-related tests, surveillance tests, testing following modifications, receiving inspection tests, and tests of special equipment are consistent with the positions of Regulatory Guide 1.30, Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment; Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation); Regulatory Guide 1.58, Qualification of Nuclear Power Plant Inspection, Examination, and Testing Personnel; and Regulatory Guide 1.116, Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems, as described in section 1.9. Test procedures shall include the following where applicable:

A. The requirements and acceptance limits contained in applicable procurement documents.

B. Instructions for performing the test.

C. Test prerequisites such as:

1. Calibrated instrumentation.

2. Adequate and appropriate equipment.

3. Trained, qualified, or licensed personnel when required.

4. Preparation, condition, and completeness of item to be tested.

5. Suitable and, if required, controlled environmental conditions.

6. Provisions for data collection and storage.

7. Specified inspection hold points for witness by quality control specialists. 8

8. Acceptance and rejection criteria.

9. Methods of documenting or recording test data and results.

10. Verification chat prerequisites are met. 8

Changes to test procedures will receive review and approval equivalent to that given in the original procedures. Departures from approved test procedures will be permitted only under controlled conditions where the intent of the procedure is not changed. Test records shall contain the following information:

A. A description of the type of observation.

B. Evidence of completing and verifying the test operation.

C. A statement on reason for departure, if applicable.

D. The date and results of the test.

E. Information related to nonconformances.

F. Identification of the person performing the test.

G. A statement of the acceptability of the results.

H. Action taken to resolve any discrepancies noted.

Test results will be recorded, reviewed, evaluated, and approved by the appropriate plant department supervisors, superintendents, and/or the plant review board, as appropriate. Tests performed at a supplier's facility will be controlled by procedures. 8

The quality assurance department will audit the above activities to verify that the testing program requirements are satisfied. The quality assurance audit program is described in subsection 17.2.18.

17.2.12 CONTROL OF MEASURING AND TEST EQUIPMENT

Measures for the control of measuring and test equipment are consistent with the position of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), as described in section 1.9.

Provisions for the control of applicable measuring and test equipment require that:

A. Procedures shall be established which describe the calibration technique, calibration frequency, maintenance and control of measuring and test instruments, tools, gauges, fixtures, reference standards, transfer standards, and nondestructive test equipment to be used in the measurement and inspection of safety-related components, systems, and structures. 8

B. Measurement and test equipment shall be uniquely identified and have traceability to calibration test data.

C. Measuring and test instruments shall be calibrated and maintained at specific intervals, based on the required accuracy, purpose, degree of usage, stability characteristics, and other conditions affecting the measurement.

D. Measuring and test equipment shall be calibrated on or before the designated due date.

E. When measuring and test equipment is found to be out of calibration, an investigation shall be conducted and documented to determine the validity of previous inspections performed and the acceptability of those items previously inspected. Procedures are established to ensure that measurements made with measuring and test equipment found to be out of calibration will be evaluated to determine the need for reinspection.

F. Calibrating instruments shall have known, valid relationships to a nationally recognized standard. If no national standard exists, the basis of calibration will be documented and approved by the responsible department superintendent or a higher level of management. 7 8

G. Records will be maintained which indicate the complete status of all items under the calibration system and

Amend. 7 5/84
Amend. 8 7/84

reflect the last and future calibration dates or the last calibration date and frequency, if applicable.

H. Calibration facilities used for calibrating sensitive and close tolerance measuring and test equipment shall provide an environment that is sufficiently controlled to allow the measuring device to be evaluated and calibrated to its required accuracy.

Reference standards will have an uncertainty (error) requirement of no more than one-fourth of the tolerance of the measuring and test equipment being calibrated; a greater uncertainty will be acceptable when limited by the state of the art. Equipment and standards not meeting this requirement will be documented and approved by the responsible department superintendent or by a higher level of management. Comparison standards used in calibration of reference standards will have a tolerance smaller than the reference standard and will be traceable to the standards housed in the National Bureau of Standards and supported by certification reports and data sheets. 8

The superintendent of maintenance is responsible to the general manager-Vogtle nuclear operations for developing, approving, and implementing procedures and instructions to establish a control and calibration program. He also approves calibration procedures. The administrative procedures that control the calibration program are reviewed by the plant review board and approved by the general manager-Vogtle nuclear operations. The quality control department is responsible for certifying the control of measuring and test equipment for compliance to plant procedures. Quality control will verify control of measuring and test equipment during inspections of work activities.

Effectiveness of the program is ensured through periodic audits performed under the quality assurance audit system that is described in subsection 17.2.18.

17.2.13 HANDLING, STORING, AND SHIPPING

Requirements for the control, handling, storing, shipping, cleaning, and preservation of materials and equipment is in accordance with established instructions, procedures, or drawings. These requirements are consistent with provisions of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), and Regulatory Guide 1.38, Quality Assurance Requirements for Packing, Shipping, Receiving, Storage, and Handling of Items for Water-Cooled Nuclear Power Plants, as described in section 1.9. Measures prescribed by the program and associated procedures include the following provisions: 8

A. Inspection of items by quality control and warehouse personnel will be made prior to use at the plant site, and routine surveillance will be made during storage.

B. For critical, sensitive, perishable, or high value items, specific written procedures for handling, storing, packing, shipping, and preserving are used. These procedures reflect design and specification requirements such as inert gas atmosphere, specific moisture content levels, and temperature levels and also reflect manufacturers' recommendations in regard to special handling and storage requirements, such as shelf life and environmental controls. Personnel responsible for handling these items are qualified.

C. Special handling tools and equipment are inspected and tested in accordance with written procedures to verify that they are adequately maintained. 8

These requirements will be implemented in accordance with approved plant procedures. The quality assurance department will audit the above program requirements to verify proper implementation. The quality assurance audit program is described in subsection 17.2.18.

17.2.14 INSPECTION, TESTING, AND OPERATING STATUS

The requirements for identification and control of the inspection, test, and operating status of safety-related structures, systems, and components are consistent with the position of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), as discussed in section 1.9.

Provisions for the inspection, test, and operating status of safety-related structures, systems, and components require that:

A. Procedures shall be established to control the use of welding stamps and inspection/status indicators, including the authority for application and removal of tags, markings, and labels.

B. Measures to preclude bypassing of required inspections, tests, and other critical operations are controlled through documented procedures. Procedures shall be established to control altering the sequence of safety-related tests, inspections, and other critical operations such that the alterations are subject to the same control as the original. 8

C. Procedures shall be established and documented to identify the inspection, test, and operating status of structures, systems, and components which provide means for ensuring that required inspections and tests performed are known throughout manufacturing, installation, and operation.

D. The status of nonconforming, inoperative, or malfunctioning structures, systems, or components is clearly identified to prevent inadvertent use.

Plant management shall ensure that appropriate plant and contractor personnel at VEGP are instructed regarding the purpose of, and precautions associated with, the various tags and labels used at VEGP. Control of nonconforming, inoperative, or malfunctioning equipment shall be maintained to prevent inadvertent use that could affect plant safety.

Effectiveness of the above requirements is ensured through periodic audits performed by the quality assurance department. The quality assurance audit system is described in subsection 17.2.18.

17.2.15 NONCONFORMING MATERIALS, PARTS, OR COMPONENTS

Requirements for the control of nonconforming materials, parts, or components are consistent with the position of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation); Regulatory Guide 1.38, Quality Assurance Requirements for Packing, Shipping, Receiving, Storage and Handling of Items for Water-Cooled Nuclear Power Plants; and Regulatory Guide 1.123, Quality Assurance Requirements for Control of Procurement of Items and Services for Nuclear Power Plants, as described in section 1.9. Georgia Power Company and its contractors follow written requirements to identify, document, segregate, disposition, and report to the affected organization any nonconformance, deviation, or other conditions adversely affecting quality. Provisions for control of nonconforming materials, parts, or components require that:

A. Measures and procedures shall be established to control the identification, documentation, segregation, review, disposition, and notification of the affected organization of nonconformance of materials, parts, components, computer codes, or services. 8

B. Documentation shall be provided which clearly identifies the nonconforming item, describes the nonconformance and disposition of the nonconformance inspection requirements, and includes signature approval of the disposition.

C. Materials, parts or components which fail to meet requirements are identified through the use of a deficiency report. These reports, prepared by the individual identifying the deficiency, are logged and processed by the supervisor of quality control after being reviewed by the shift supervisor for immediate operability implications and immediate reporting requirements. The supervisor of quality control is responsible for controlling the item through tagging or segregation and by appropriate documentation to prevent its inadvertent installation or use in the plant. 8

D. These reports are reviewed by appropriate operations and engineering personnel and by the plant review board for regulatory reportability and to ensure that appropriate corrective action is being taken.

E. Nonconforming items are segregated from other acceptable items (where feasible) and uniquely identified as nonconforming until properly dispositioned. Items that are unique, identified,

properly marked, and have their own specified storage location need not be segregated.

F. Items which require rework, repair, or replacement are inspected and tested in accordance with the original inspection and testing requirements or acceptable alternatives, as determined by the superintendent of regulatory compliance. Rework, repair, and associated inspection and testing at the suppliers' facilities are performed according to documented procedures, the disposition is documented, and the documentation is forwarded to the plant site with the hardware.

G. Nonconformances which are dispositioned "accept as is" or "repair" are made part of the quality verification records associated with the item.

H. Deficiency reports are analyzed for trends by the superintendent of regulatory compliance. Handling of these trends is discussed in subsection 17.2.16.

I. VEGP procedures provide assurance that deficiencies are resolved prior to the initiation of functional tests. Deficiencies will be evaluated to determine whether they would adversely affect the functional test.

Approved procedures provide provisions for an independent review of nonconformances. The quality assurance audit system (subsection 17.2.18) will verify compliance of each activity with the operations quality assurance program.

17.2.16 CORRECTIVE ACTION

Approved plant procedures shall be written to ensure that conditions adverse to quality, failures, malfunctions, deficiencies, deviations, defective materials and equipment, and nonconformances on safety-related systems are promptly identified, documented, and corrected. The program described herein requires the identification and corrective action of conditions adverse to quality. These requirements are consistent with the provisions of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), as described in section 1.9.

Corrective action is initiated following the determination of conditions adverse to quality. Failures, malfunctions, deficiencies, deviations, defective materials and equipment, and nonconformance on safety-related systems are documented by appropriate procedures.

Various processes are used to identify problems requiring corrective action. Items requiring prompt evaluation and correction are handled with a deficiency report. This process is used for nonconforming items as discussed in subsection 17.2.15 and for other conditions adverse to quality, such as operational deficiencies, unusual events or conditions, failures to meet Technical Specifications requirements. Other processes for identifying problems include quality assurance audits and Nuclear Regulatory Commission (NRC) inspections.

The superintendent of regulatory compliance is responsible for coordinating the investigation of the problem to determine the root cause and for coordinating and tracking the necessary immediate and long term corrective action.

The superintendent of regulatory compliance is responsible for analyzing deficiency reports for adverse trends. Any identified trends are reported to the appropriate department for corrective action and to the general manager-Vogtle nuclear operations and quality assurance site manager. The quality assurance site manager analyzes quality assurance and NRC items for adverse trends and forwards any identified trends to the general manager-Vogtle nuclear operations, who is responsible for assessing these trends. Based on these inputs as well as inputs from other processes, the general manager-Vogtle nuclear operatons is responsible for making sure that proper corrective action is being taken.

Reports of significant conditions adverse to quality are reviewed by the plant review board, and its recommendations regarding corrective action are forwarded to appropriate

management personnel. Verification of proper implementation of corrective action program requirements is achieved by the quality assurance audit program, as described in subsection 17.2.18. 8

17.2.17 QUALITY ASSURANCE RECORDS

Plant procedures require the proper identification of documents which furnish objective evidence of activities affecting the quality of the VEGP. Written procedures which are consistent with applicable codes, standards, and procurement documents will control the storage and retention of records. The minimum records to be controlled and retained are described in Technical Specifications section 6.10, Record Retention; additional records are retained in accordance with approved procedures. Typical records include plant history, operating logs, reportable occurrences, results of reviews, inspections, tests, audits, material analyses, qualification of personnel, procedures, and equipment; and other documentation such as drawings, specifications, procurement documents, calibration procedures and reports, nonconformance reports, and corrective action reports.

The superintendent of administration is responsible for the receipt, storage, retrievability, issue, and control of specified plant documents. Personnel and organizations submitting records and documents to the documentation staff for storage shall be responsible for providing adequate information with that record or document to allow its systematic storage and retrieval. Inspection records submitted to the documentation staff for storage will be reviewed by the responsible organization to ensure that the requirements in subsection 17.2.10 are included.

Record storage facilities have been constructed, located, and secured to prevent destruction of applicable records by fire, flooding, theft, and deterioration by environmental conditions. Activities associated with quality assurance records are consistent with the position of Regulatory Guide 1.88, Collection, Storage, and Maintenance of Nuclear Power Plant Quality Assurance Records, and Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), as described in section 1.9.

The quality assurance department will audit activities to ensure the records and retention requirements described herein are implemented. (See subsection 17.2.18.)

17.2.18 AUDITS

The quality assurance department is responsible for the program of planned and scheduled audits devised to verify the effectiveness of and compliance with all aspects of the operations quality assurance program (OQAP). The objectives of the quality assurance audit system are to:

A. Determine that the OQAP has been developed in accordance with applicable requirements.

B. Verify by audit that the OQAP has been implemented.

C. Assess the effectiveness of the OQAP.

D. Identify program deficiencies.

E. Verify resolution of deficiencies and nonconformances.

F. Ensure compliance with Final Safety Analysis Report commitments. 8

The quality assurance audit program requirements are consistent with the provisions of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation); Regulatory Guide 1.144, Auditing of Quality Assurance Programs for Nuclear Power Plants; and Regulatory Guide 1.146, Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants, as described in section 1.9. To satisfy the requirements for the audit system, the following measures shall be established and implemented:

A. The performance of audits is in accordance with written procedures or checklists and is conducted by appropriately trained and qualified personnel not having direct responsibilities in the areas being audited.

B. Audit results are documented, including the formal identification of problems found and the recommended corrective actions where appropriate, and are issued through preparation of audit finding reports. 8

C. Responsible management takes the necessary action to correct the deficiencies revealed by the audit.

D. Deficient areas are monitored until corrections have been accomplished.

E. Audits include an objective evaluation of quality-related practices, procedures, and instructions; the

effectiveness of implementation; and the conformance with policy directives.

F. The audits include the evaluation of work areas, activities, and processes and the review of documents and records.

G. The following types of audits shall be performed:

1. Audits to provide a comprehensive independent verification and evaluation of quality-related procedures and activities to ensure that they are adequate and effectively comply with the OQAP requirements. These audits are performed under the direction of the Vogtle quality assurance manager.

2. External audits performed by the Vogtle quality assurance manager and principal contractors on their suppliers performing activities on safety-related structures, systems, and components. These audits include verification and evaluation of their quality assurance program, procedures, and activities to ensure that they are adequate and effectively comply with all aspects of the OQAP and procedure requirements.

H. Audits are regularly scheduled on the basis of status and safety importance of the activities being performed; they are initiated early enough to ensure effective quality. Audit schedule changes reflecting more frequent audits are required by one or more of the following conditions:

1. When significant changes are made in functional areas of the OQAP, such as significant reorganization or procedure revisions.

2. When there is evidence that the performance or reliability of safety-related items is in jeopardy due to deficiencies or nonconformances in the OQAP.

3. When a systematic, independent assessment of OQAP effectiveness is necessary.

4. When it is necessary to verify implementation of required corrective actions, such as:

a. Procedures control and review.

17.2.18 AUDITS

The quality assurance department is responsible for the program of planned and scheduled audits devised to verify the effectiveness of and compliance with all aspects of the operations quality assurance program (OQAP). The objectives of the quality assurance audit system are to:

A. Determine that the OQAP has been developed in accordance with applicable requirements.

B. Verify by audit that the OQAP has been implemented.

C. Assess the effectiveness of the OQAP.

D. Identify program deficiencies.

E. Verify resolution of deficiencies and nonconformances.

F. Ensure compliance with Final Safety Analysis Report commitments. 8

The quality assurance audit program requirements are consistent with the provisions of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation); Regulatory Guide 1.144, Auditing of Quality Assurance Programs for Nuclear Power Plants; and Regulatory Guide 1.146, Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants, as described in section 1.9. To satisfy the requirements for the audit system, the following measures shall be established and implemented:

A. The performance of audits is in accordance with written procedures or checklists and is conducted by appropriately trained and qualified personnel not having direct responsibilities in the areas being audited.

B. Audit results are documented, including the formal identification of problems found and the recommended corrective actions where appropriate, and are issued through preparation of audit finding reports. 8

C. Responsible management takes the necessary action to correct the deficiencies revealed by the audit.

D. Deficient areas are monitored until corrections have been accomplished.

E. Audits include an objective evaluation of quality-related practices, procedures, and instructions; the

b. Records management and document control.

c. Fire protection program.

d. Corrective action programs.

The quality assurance audit department will receive formal and on-the-job training prior to the initiation of the OQAP as outlined in this chapter. The quality assurance department under the general manager-quality assurance will implement the quality assurance audit system. Paragraph 17.2.1.3 describes the quality assurance department organization.

Plant management is responsible for making available plant records, reports, log books, and other quality assurance documents requested by the audit team.

I. Analysis of audits performed and reports which indicate quality trends and the effectiveness of the OQAP will be provided to management.

During the operating life of the plant, the onsite activities to be audited will include but not be limited to the following:

A. Administrative controls and reporting requirements.

B. Health physics and radiation protection.

C. Environmental monitoring plant chemistry and environmental technical specification.

D. Plant chemistry.

E. Radioactive waste control.

F. Reactor and plant operations.

G. Material control (procurement, storage, and issue).

H. Quality control (nondestructive examination, inspection, training, qualification/certification of quality control personnel, etc). 8

I. Surveillance program.

J. Test equipment calibration and control.

K. Balance of plant instrument calibration.

L. Computer codes.

M. Security Plan and procedures.

N. Emergency Plan and procedures.

O. Design changes and plant modification control.

P. Departmental training programs.

Q. Maintenance programs.

R. Fuel handling and special nuclear material control.

S. Inservice inspection program.

17.2.16 CORRECTIVE ACTION

Approved plant procedures shall be written to ensure that conditions adverse to quality, failures, malfunctions, deficiencies, deviations, defective materials and equipment, and nonconformances on safety-related systems are promptly identified, documented, and corrected. The program described herein requires the identification and corrective action of conditions adverse to quality. These requirements are consistent with the provisions of Regulatory Guide 1.33, Quality Assurance Program Requirements (Operation), as described in section 1.9.

Provisions for corrective action require that:

A. Evaluation of conditions adverse to quality and determination of the need for corrective action are in accordance with established approved procedures.

B. Measures are established to determine the cause of the condition and to institute corrective action to preclude the recurrence of these significant conditions adverse to quality.

C. Measures are established to follow up on corrective actions to ensure proper implementation and to close out the corrective action documentation.

D. Measures are established to document and report to appropriate levels of management significant conditions adverse to quality, cause of the conditions, and corrective action taken.

Reports of significant conditions adverse to quality are reviewed by the plant review board, and its recommendations regarding corrective action are forwarded to appropriate management personnel. Verification of proper implementation of corrective action is conducted by the quality assurance audit personnel, as described in subsection 17.2.18.

Summary, Vogtle 1

Regional Offices

[illegible]	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	Totals
ITW	56.0	8.0	54.0	114.0	16.0						247.0
ITD	107.0	8.0	65.0	134.5	22.0						346.5
2TW	23.0	4.0	–								47.0
2TX	6.0	8.0	–								14.0
2TD	32.0	–	9.0								41.0
ITX		27.0	14.0	6.0							47.0
DOG					296.5	310.0	114.2	470.0	402.0		1592.7
PAP					235.0	50.5	52.0	234.0	248.0		807.5
PPI					303.0	222.5	128.6	994.5	1238.5		2887.1
ISP [illegible]									37.5		37.5
2AT [illegible]									29.0		29.0
APD										298.0	298.0
APS										789.0	789.0
APP										158.0	158.0
BC [illegible]										8.0	8.0
BH [illegible]										24.0	24.0
131										16.0	16.0
Subtotal Excluded	223.0	55.0	146.0	254.5	876.5	583.0	298.8	1655.5	1935.0	1290.0	7360.3
* [illegible] from fees											
PCI		8.5	17.5	22.0	42.0	17.0	87.0	117.0	54.0		383.0
JDM					77.0	99.0					176.0
FRI					6.0	261.0	12.5	140.0	79.5		499.0
RIN					10.0						10.0
RTI						17.0					17.0
BRI							11.0	37.0	10.5		58.5
DRI							154.0	86.0	15.0		255.0
PIN							142.0	136.5	45.0		323.5
SRI							4.0	4.0			8.0
13W									44.0		44.0
13W Gen [illegible]									144.0	18.0	162.0
PEI									2.0		2.0

Summary, [illegible] 1 p2
Regional Office

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	Total
Exclusions cont'd											
ARD										108.5	108.5
ARS										154.0	154.0
ARP										39.0	38.0
AT										107.0	107.
BB										6.0	6.0
Bdr										4.0	4.0
BC										118.0	118.0
Bg										111.0	111.0
13rv										16.0	16.0
Subtotal Excluded	—	8.5	17.5	27.0	135.0	381.0	439.5	515.5	444.0	681.5	2616.5
Grand Total [illegible] Hours	272.0	631.5	163.5	276.5	1011.5	965.0	731.3	2214.0	2357.0	1971.5	9976.8

09/21/84

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

Run 1

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
FOR FISCAL YEAR '75				
	1TW	OUT OF OFC SFTY INSP EFFORT (ON-SITE)		
				3.0
			BROWNLEE,VIRGIL L	40.0
EMPNME	TOTAL		DANIELSON, DUANE H	12.0
EMPNME	TOTAL		WRIGHT, ROBERT W	55.0
EMPNME	TOTAL			
ACT-CODE	TOTAL			
	1TO	ALL OTHER SFTY INSP EFFORT(PREP-DOC-ENF)		
				5.5
			BROWNLEE,VIRGIL L	82.0
EMPNME	TOTAL		DANIELSON, DUANE H	19.5
EMPNME	TOTAL		WRIGHT, ROBERT W	107.0
EMPNME	TOTAL			
ACT-CODE	TOTAL			
	2TW	OUT OF OFC ENVIR INSP EFFORT (ON-SITE)		
				23.0
			CUNNINGHAM, ANDREW L	23.0
EMPNME	TOTAL			
ACT-CODE	TOTAL			
	2TX	IN OFFICE ENVIR INSPECTION EFFORT		
				6.0
			CUNNINGHAM, ANDREW L	6.0
EMPNME	TOTAL			
ACT-CODE	TOTAL			
	2TO	ALL OTHER ENVIR INSPECTION EFFORT		
				32.0
			CUNNINGHAM, ANDREW L	32.0
EMPNME	TOTAL			223.0
ACT-CODE	TOTAL			
YR	TOTAL			
FOR FISCAL YEAR '76				
	C00	TRAVEL		
				4.0
			CUNNINGHAM, ANDREW L	4.5
EMPNME	TOTAL		RAUSCH, JOHN K	8.5
EMPNME	TOTAL			
ACT-CODE	TOTAL			

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
	1TW OUT OF OFC SFTY INSP EFFORT (ON-SITE)		
EMPNME TOTAL		RAUSCH, JOHN K	8.0
ACT-CODE TOTAL			8.0
	1TX IN OFFICE SAFETY INSPECTION EFFORT		
EMPNME TOTAL		RAUSCH, JOHN K	27.0
ACT-CODE TOTAL			27.0
	1T0 ALL OTHER SFTY INSP EFFORT(PREP-DOC-ENF)		
EMPNME TOTAL		RAUSCH, JOHN K	8.0
ACT-CODE TOTAL			8.0
	2TW OUT OF OFC ENVIR INSP EFFORT (ON-SITE)		
EMPNME TOTAL		CUNNINGHAM, ANDREW L	4.0
ACT-CODE TOTAL			4.0
	2TX IN OFFICE ENVIR INSPECTION EFFORT		
EMPNME TOTAL		CUNNINGHAM, ANDREW L	8.0
ACT-CODE TOTAL			8.0
YR TOTAL			63.5
FOR FISCAL YEAR '77			
	C00 TRAVEL		
EMPNME TOTAL		BRYANT,JACK C	1.0
EMPNME TOTAL		RAUSCH, JOHN K	14.5
EMPNME TOTAL		WRIGHT, ROBERT W	2.0
ACT-CODE TOTAL			17.5

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		1TW OUT OF OFC SFTY INSP EFFORT (ON-SITE)		
EMPNME	TOTAL		BRYANT,JACK C	15.0
EMPNME	TOTAL		RAUSCH, JOHN K	33.0
EMPNME	TOTAL		WRIGHT, ROBERT W	6.0
ACT-CODE	TOTAL			54.0
		1TX IN OFFICE SAFETY INSPECTION EFFORT		
EMPNME	TOTAL		RAUSCH, JOHN K	14.0
ACT-CODE	TOTAL			14.0
		1T0 ALL OTHER SFTY INSP EFFORT(PREP-DOC-ENF)		
EMPNME	TOTAL		RAUSCH, JOHN K	60.0
EMPNME	TOTAL		SWAN,WALLACE B	2.0
EMPNME	TOTAL		WRIGHT, ROBERT W	7.0
ACT-CODE	TOTAL			69.0
		2T0 ALL OTHER ENVIR INSPECTION EFFORT		
EMPNME	TOTAL		CUNNINGHAM, ANDREW L	9.0
ACT-CODE	TOTAL			9.0
YR	TOTAL			163.5
		FOR FISCAL YEAR '78		
		CC0 TRAVEL		
EMPNME	TOTAL		COMPTON, ROBERT M	4.0
EMPNME	TOTAL		GIBBONS, THOMAS D	2.0
EMPNME	TOTAL		HUNT, MILTON D	2.0
EMPNME	TOTAL		LENAHAN, JOE	4.0
EMPNME	TOTAL		RAUSCH, JOHN K	4.0
EMPNME	TOTAL		SWAN,WALLACE B	6.0
ACT-CODE	TOTAL			22.0

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
1TW	OUT OF OFC SFTY INSP EFFORT (ON-SITE)		
		COMPTON, ROBERT M	12.0
EMPNME	TOTAL	GIBBONS, THOMAS D	14.0
EMPNME	TOTAL	HUNT, MILTON D	6.5
EMPNME	TOTAL	LENAHAN, JOE	12.0
EMPNME	TOTAL	RAUSCH, JOHN K	38.5
EMPNME	TOTAL	SWAN,WALLACE B	31.0
EMPNME	TOTAL		114.0
ACT-CODE	TOTAL		
1TX	IN OFFICE SAFETY INSPECTION EFFORT		
		RAUSCH, JOHN K	2.0
EMPNME	TOTAL	SWAN,WALLACE B	4.0
EMPNME	TOTAL		6.0
ACT-CODE	TOTAL		
1TO	ALL OTHER SFTY INSP EFFORT(PREP-DOC-ENF)		
		COMPTON, ROBERT M	14.0
EMPNME	TOTAL	GIBBONS, THOMAS D	19.0
EMPNME	TOTAL	LENAHAN, JOE	28.0
EMPNME	TOTAL	RAUSCH, JOHN K	45.5
EMPNME	TOTAL	SWAN,WALLACE B	28.0
EMPNME	TOTAL		134.5
ACT-CODE	TOTAL		276.5
YR	TOTAL		
FOR FISCAL YEAR '79			
C00	TRAVEL		
		ANG, WILLIAM P	4.0
EMPNME	TOTAL	HARRIS, JOHN R	7.0
EMPNME	TOTAL	HERDT, ALAN R	4.0
EMPNME	TOTAL	HUNT, MILTON D	23.0
EMPNME	TOTAL	MODENOS, LEO	.0
EMPNME	TOTAL	SWAN,WALLACE B	4.0
EMPNME	TOTAL		42.0
ACT-CODE	TOTAL		

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		DOC ROUTINE DOCUMENTATION		
EMPNME	TOTAL		GOUGE, MICHAEL J	12.0
EMPNME	TOTAL		HARRIS, JOHN R	48.0
EMPNME	TOTAL		HUNT, MILTON D	163.5
EMPNME	TOTAL		LENAHAN, JOE	38.0
EMPNME	TOTAL		MODENOS, LEO	30.0
EMPNME	TOTAL		SWAN,WALLACE B	5.0
ACT-CODE	TOTAL			296.5
		J0M ADMINISTRATIVE SUPPORT		
EMPNME	TOTAL		HUNT, MILTON D	77.0
ACT-CODE	TOTAL			77.0
		PAP ROUTINE PREPARATION		
EMPNME	TOTAL		CUNNINGHAM, ANDREW L	15.0
EMPNME	TOTAL		GOUGE, MICHAEL J	1.0
EMPNME	TOTAL		HARRIS, JOHN R	143.0
EMPNME	TOTAL		HUNT, MILTON D	21.0
EMPNME	TOTAL		LENAHAN, JOE	29.0
EMPNME	TOTAL		MODENOS, LEO	30.0
ACT-CODE	TOTAL			239.0
		PP1 R[illegible] NE INSPECTION		
EMPNME	TOTAL		GOUGE, MICHAEL J	21.0
EMPNME	TOTAL		HARRIS, JOHN R	62.0
EMPNME	TOTAL		HERDT, ALAN R	28.0
EMPNME	TOTAL		HUNT, MILTON D	103.0
EMPNME	TOTAL		LENAHAN, JOE	40.0
EMPNME	TOTAL		MODENOS, LEO	48.0
EMPNME	TOTAL		VALLISH, EDWARD J	1.0
ACT-CODE	TOTAL			303.0

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		PR1 REACTIVE ONSITE/OFFISTE INSPECTION		
			HARRIS, JOHN R	2.0
EMPNME	TOTAL		LENAHAN, JOE	4.0
EMPNME	TOTAL			6.0
ACT-CODE	TOTAL			
		R1N		
			HUNT, MILTON D	10.0
EMPNME	TOTAL			10.0
ACT-CODE	TOTAL			
		1TW OUT OF OFC SFTY INSP EFFORT (ON-SITE)		
			ANG, WILLIAM P	8.0
EMPNME	TOTAL		SWAN,WALLACE B	8.0
EMPNME	TOTAL			16.0
ACT-CODE	TOTAL			
		1T0 ALL OTHER SFTY INSP EFFORT(PREP-DOC-ENF)		
			ANG, WILLIAM P	5.0
EMPNME	TOTAL		HUNT, MILTON D	5.0
EMPNME	TOTAL		RAUSCH, JOHN K	6.0
EMPNME	TOTAL		SWAN,WALLACE B	6.0
EMPNME	TOTAL			22.0
ACT-CODE	TOTAL			1,011.5
YR	TOTAL			
		FOR FISCAL YEAR '80		
		C00 TRAVEL		
			BROWNLEE, VIRGIL	1.5
EMPNME	TOTAL		CANTRELL, FLOYD	2.0
EMPNME	TOTAL		CROWLEY, BILLY R	6.5
EMPNME	TOTAL		HARRIS, JOHN R	.0
EMPNME	TOTAL			10.0
ACT-CODE	TOTAL			

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		D0C ROUTINE DOCUMENTATION		
EMPNME	TOTAL		BROWNLEE, VIRGIL	12.0
EMPNME	TOTAL		CROWLEY, BILLY R	29.0
EMPNME	TOTAL		CUNNINGHAM, ANDREW L	21.0
EMPNME	TOTAL		GERARD, EDWARD H	10.0
EMPNME	TOTAL		HARRIS, JOHN R	28.0
EMPNME	TOTAL		HUNT, MILTON D	163.0
EMPNME	TOTAL		LENAHAN, JOE	9.0
EMPNME	TOTAL		MCFARLAND, C R	12.0
EMPNME	TOTAL		THOMAS, MCKENZIE	16.0
EMPNME	TOTAL		VANDOORN, PETER K	8.0
EMPNME	TOTAL		WRIGHT, ROBERT	2.0
ACT-CODE	TOTAL			310.0
		J0M ADMINISTRATIVE SUPPORT		
EMPNME	TOTAL		HUNT, MILTON D	99.0
ACT-CODE	TOTAL			99.0
		PAP ROUTINE PREPARATION		
EMPNME	TOTAL		BROWNLEE, VIRGIL	1.5
EMPNME	TOTAL		CROWLEY, BILLY R	2.0
EMPNME	TOTAL		GERARD, EDWARD H	3.0
EMPNME	TOTAL		HARRIS, JOHN R	12.0
EMPNME	TOTAL		HUNT, MILTON D	16.0
EMPNME	TOTAL		LENAHAN, JOE	3.0
EMPNME	TOTAL		MCFARLAND, C R	4.0
EMPNME	TOTAL		THOMAS, MCKENZIE	8.0
EMPNME	TOTAL		WRIGHT, ROBERT	1.0
ACT-CODE	TOTAL			50.5
		PP1 ROUTINE INSPECTION		
EMPNME	TOTAL		BROWNLEE, VIRGIL	7.5
EMPNME	TOTAL		CROWLEY, BILLY R	25.5
EMPNME	TOTAL		CUNNINGHAM, ANDREW L	12.0

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
	PP1 ROUTINE INSPECTION		
EMPNME	TOTAL	GERARD, EDWARD H	13.0
EMPNME	TOTAL	HARRIS, JOHN R	36.0
EMPNME	TOTAL	HUNT, MILTON D	71.5
EMPNME	TOTAL	LENAHAN, JOE	8.0
EMPNME	TOTAL	MCFARLAND, C R	11.0
EMPNME	TOTAL	THOMAS, MCKENZIE	22.0
ACT-CODE	TOTAL	VANDOORN, PETER K	16.0
			222.5
	PR1 REACTIVE ONSITE/OFFISTE INSPECTION		
EMPNME	TOTAL	CANTRELL, FLOYD	4.0
EMPNME	TOTAL	HARRIS, JOHN R	173.0
EMPNME	TOTAL	HUNT, MILTON D	28.0
EMPNME	TOTAL	LENAHAN, JOE	55.0
EMPNME	TOTAL	WRIGHT, ROBERT	1.0
ACT-CODE	TOTAL		261.0
	RT1 INCIDENT/ACCIDENT RESPONSE		
EMPNME	TOTAL	MURPHY, CHARLES E	12.0
ACT-CODE	TOTAL		12.0
YR	TOTAL		965.0
	FOR FISCAL YEAR '81		
	BR1 REACTIVE PREPARATION		
EMPNME	TOTAL	HOWELL, JERRY C	3.0
EMPNME	TOTAL	LENAHAN, JOE	6.0
EMPNME	TOTAL	WRIGHT, R	2.0
ACT-CODE	TOTAL		11.0
	C01 DOCKET TRAVEL		
EMPNME	TOTAL	CROWLEY, BILLY R	3.0
EMPNME	TOTAL	DEBBAGE, ARTHUR G.	2.5

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		C01 DOCKET TRAVEL		
EMPNME	TOTAL		GIRARD, EDWARD H	4.0
EMPNME	TOTAL		HARRIS, JOHN R	3.0
EMPNME	TOTAL		HOWELL, JERRY C	12.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	6.0
EMPNME	TOTAL		LENAHAN, JOE	14.0
EMPNME	TOTAL		VORSE, JAMES Y	40.0
EMPNME	TOTAL		WRIGHT, R	2.5
ACT-CODE	TOTAL			87.0
		DR1 REACTIVE DOCUMENTATION		
EMPNME	TOTAL		ALDERSON, CARL E	2.0
EMPNME	TOTAL		GIRARD, EDWARD H	6.0
EMPNME	TOTAL		HARRIS, JOHN R	8.0
EMPNME	TOTAL		HOWELL, JERRY C	4.0
EMPNME	TOTAL		LENAHAN, JOE	73.0
EMPNME	TOTAL		VANDOORN, PETER K	1.0
EMPNME	TOTAL		VORSE, JAMES Y	57.0
ACT-CODE	TOTAL			151.0
		D0C ROUTINE DOCUMENTATION		
EMPNME	TOTAL		CROWLEY, BILLY R	20.0
EMPNME	TOTAL		GIRARD, EDWARD H	13.2
EMPNME	TOTAL		HARRIS, JOHN R	38.0
EMPNME	TOTAL		HUNT, MILTON D	8.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	20.0
EMPNME	TOTAL		WRIGHT, R	15.0
ACT-CODE	TOTAL			114.2
		PAP ROUTINE PREPARATION		
EMPNME	TOTAL		GIRARD, EDWARD H	5.0
EMPNME	TOTAL		HARRIS, JOHN R	21.0
EMPNME	TOTAL		HUNT, MILTON D	4.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	10.0

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
PAP	ROUTINE PREPARATION		
EMPNME TOTAL		VORSE, JAMES Y	4.0
EMPNME TOTAL		WRIGHT, R	12.0
ACT-CODE TOTAL			56.0
PP1	ROUTINE INSPECTION		
EMPNME TOTAL		CROWLEY, BILLY R	14.0
EMPNME TOTAL		DEBBAGE, ARTHUR G.	17.0
EMPNME TOTAL		ECONOMOS, NICK	1.0
EMPNME TOTAL		GIRARD, EDWARD H	12.6
EMPNME TOTAL		HARRIS, JOHN R	41.0
EMPNME TOTAL		KLEINSORGE, WILLIAM P	26.0
EMPNME TOTAL		WRIGHT, R	17.0
ACT-CODE TOTAL			128.6
PR1	REACTIVE ONSITE/OFFISTE INSPECTION		
EMPNME TOTAL		ECONOMOS, NICK	4.0
EMPNME TOTAL		GIBBONS, THOMAS D	1.5
EMPNME TOTAL		GIRARD, EDWARD H	3.0
EMPNME TOTAL		WRIGHT, R	4.0
ACT-CODE TOTAL			12.5
P1V	INVESTIGATION		
EMPNME TOTAL		ALDERSON, CARL E	2.5
EMPNME TOTAL		HOWELL, JERRY C	25.0
EMPNME TOTAL		LENAHAN, JOE	47.0
EMPNME TOTAL		VORSE, JAMES Y	92.5
ACT-CODE TOTAL			167.0
SR1	SITE PUBLIC RELATIONS		
EMPNME TOTAL		HARRIS, JOHN R	4.0
ACT-CODE TOTAL			4.0

09/21/84

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
	SR1 SITE PUBLIC RELATIONS		
YR	TOTAL		731.3
	FOR FISCAL YEAR '82		
	BR1 REACTIVE PREPARATION		
EMPNME	TOTAL	HARRIS, JOHN R	4.0
EMPNME	TOTAL	HUNT, MILTON D	5.0
EMPNME	TOTAL	SWAN, WALLACE B	8.0
EMPNME	TOTAL	TOBIN, WILLIAM J	20.0
ACT-CODE	TOTAL		37.0
	C01 DOCKET TRAVEL		
EMPNME	TOTAL	COLEY, JAMES L JR	4.0
EMPNME	TOTAL	DEBBAGE, ARTHUR G.	5.0
EMPNME	TOTAL	GIRARD, EDWARD H	5.5
EMPNME	TOTAL	HARRIS, JOHN R	15.0
EMPNME	TOTAL	HOLMES-RAY, PETER	3.0
EMPNME	TOTAL	HUNT, MILTON D	4.0
EMPNME	TOTAL	KLEINSORGE, WILLIAM P	10.0
EMPNME	TOTAL	LENAHAN, JOE	3.0
EMPNME	TOTAL	LIU, WAN-CHENG	5.0
EMPNME	TOTAL	MCFARLAND, C R	4.5
EMPNME	TOTAL	MERRIWEATHER, NORMAN	3.5
EMPNME	TOTAL	RUFF, ALBERT B	9.0
EMPNME	TOTAL	SANDERS, WILLIAM F	16.0
EMPNME	TOTAL	SWAN, WALLACE B	.0
EMPNME	TOTAL	TOBIN, WILLIAM J	17.0
EMPNME	TOTAL	WRIGHT, R	7.5
ACT-CODE	TOTAL		112.0
	DR1 REACTIVE DOCUMENTATION		
EMPNME	TOTAL	ALDERSON, CARL E	5.0
EMPNME	TOTAL	CONER CHARLES E	2.0
EMPNME	TOTAL	HOWELL, JERRY C	3.0
EMPNME	TOTAL	HUNT, MILTON D	7.0

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		DR1 REACTIVE DOCUMENTATION		
EMPNME	TOTAL		LENAHAN, JOE	6.0
EMPNME	TOTAL		ROGGE, JOHN	1.0
EMPNME	TOTAL		TOBIN, WILLIAM J	54.0
EMPNME	TOTAL		VORSE, JAMES Y	3.0
EMPNME	TOTAL		WILLIAMSON, EVERETT	5.0
ACT-CODE	TOTAL			86.0
		D0C ROUTINE DOCUMENTATION		
EMPNME	TOTAL		COLEY, JAMES L JR	21.0
EMPNME	TOTAL		DEBBAGE, ARTHUR G.	79.0
EMPNME	TOTAL		GIRARD, EDWARD H	25.0
EMPNME	TOTAL		HARRIS, JOHN R	46.0
EMPNME	TOTAL		HUNT, MILTON D	8.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	43.0
EMPNME	TOTAL		LENAHAN, JOE	14.0
EMPNME	TOTAL		MCFARLAND, C R	14.0
EMPNME	TOTAL		MERRIWEATHER, NORMAN	41.0
EMPNME	TOTAL		ROGGE, JOHN	32.0
EMPNME	TOTAL		RUFF, ALBERT B	5.0
EMPNME	TOTAL		SANDERS, WILLIAM F	81.0
EMPNME	TOTAL		SWAN, WALLACE B	4.0
EMPNME	TOTAL		WRIGHT, R	57.0
ACT-CODE	TOTAL			470.0
		PAP ROUTINE PREPARATION		
EMPNME	TOTAL		DEBBAGE, ARTHUR G.	1.0
EMPNME	TOTAL		GIRARD, EDWARD H	5.0
EMPNME	TOTAL		HARRIS, JOHN R	25.0
EMPNME	TOTAL		HOLMES-RAY, PETER	3.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	20.0
EMPNME	TOTAL		LIU, WAN-CHENG	4.0
EMPNME	TOTAL		MCFARLAND, C R	4.0
EMPNME	TOTAL		MERRIWEATHER, NORMAN	21.0
EMPNME	TOTAL		RUFF, ALBERT B	26.0
EMPNME	TOTAL		SANDERS, WILLIAM F	106.0

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		PAP ROUTINE PREPARATIOn		
			WRIGHT, R	19.0
EMPNME	TOTAL			234.0
ACT-CODE	TOTAL			
		PE1 ENFORCEMENT		
			HUNT, MILTON D	.0
EMPNME	TOTAL			.0
ACT-CODE	TOTAL			
		PP1 ROUTINE INSPECTION		
			COLEY, JAMES L JR	30.0
EMPNME	TOTAL		DEBBAGE, ARTHUR G.	27.0
EMPNME	TOTAL		GIRARD, EDWARD H	18.0
EMPNME	TOTAL		HARRIS, JOHN R	62.0
EMPNME	TOTAL		HOLMES-RAY, PETER	10.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	54.0
EMPNME	TOTAL		LENAHAN, JOE	8.0
EMPNME	TOTAL		LIU, WAN-CHENG	15.0
EMPNME	TOTAL		MCFARLAND, C R	15.5
EMPNME	TOTAL		MERRIWEATHER, NORMAN	28.5
EMPNME	TOTAL		ROGGE, JOHN	14.0
EMPNME	TOTAL		RUFF, ALBERT B	19.0
EMPNME	TOTAL		SANDERS, WILLIAM F	652.0
EMPNME	TOTAL		WRIGHT, R	41.5
ACT-CODE	TOTAL			994.5
		PR1 REACTIVE ONSITE/OFFISTE INSPECTION		
			COLEY, JAMES L JR	2.0
EMPNME	TOTAL		DEBBAGE, ARTHUR G.	40.0
EMPNME	TOTAL		GIRARD, EDWARD H	2.0
EMPNME	TOTAL		HARRIS, JOHN R	50.0
EMPNME	TOTAL		LENAHAN, JOE	16.?
EMPNME	TOTAL		MERRIWEATHER, NORMAN	1.0
EMPNME	TOTAL		RUFF, ALBERT B	10.?
EMPNME	TOTAL		WRIGHT, R	15

09/21/84

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
	PR1 REACTIVE ONSITE/OFFISTE INSPECTION		
			140.0
ACT-CODE TOTAL			
	P1V INVESTIGATION		
		HARRIS, JOHN R	31.0
EMPNME TOTAL		HOWELL, JERRY C	1.0
EMPNME TOTAL		HUNT, MILTON D	21.0
EMPNME TOTAL		ROGGE, JOHN	2.0
EMPNME TOTAL		RUFF, ALBERT B	3.0
EMPNME TOTAL		TOBIN, WILLIAM J	49.0
EMPNME TOTAL		VORSE, JAMES Y	23.5
EMPNME TOTAL		WILLIAMSON, EVERETT	6.0
EMPNME TOTAL			136.5
ACT-CODE TOTAL			
	SR1 SITE PUBLIC RELATIONS		
		SANDERS, WILLIAM F	4.0
EMPNME TOTAL			4.0
ACT-CODE TOTAL			2,214.0
YR TOTAL			
	FOR FISCAL YEAR '83 NOT RELATED TO AN ACTIVITY CODE		
		JOHNSON, ARTHUR H	142.0
EMPNME TOTAL		NORRIS, TIMOTHY L	44.0
EMPNME TOTAL			186.0
ACT-CODE TOTAL			
	BR1 REACTIVE PREPARATION		
		DEBBAGE, ARTHUR G	8.0
EMPNME TOTAL		GIRARD, EDWARD H	1.5
EMPNME TOTAL		HARRIS, JOHN 2	1.0
EMPNME TOTAL			10.5
ACT-CODE TOTAL			

see p 9 of Run #V for description

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
	C01 DOCKET TRAVEL		
		GIBBONS, THOMAS D	4.0
EMPNME	TOTAL	GIRARD, EDWARD H	10.0
EMPNME	TOTAL	HARRIS, JOHN R	10.0
EMPNME	TOTAL	HUNT, MILTON D	3.0
EMPNME	TOTAL	JACKSON, LOUIE H	3.0
EMPNME	TOTAL	KLEINSORGE, WILLIAM P	1.0
EMPNME	TOTAL	LENAHAN, JOE	4.0
EMPNME	TOTAL	LIU, WAN-CHENG	7.0
EMPNME	TOTAL	ROGGE, JOHN F	4.0
EMPNME	TOTAL	RUFF, ALBERT B	7.0
EMPNME	TOTAL	SANDERS, WILLIAM F	17.0
EMPNME	TOTAL	STETKA, THOMAS F	8.0
EMPNME	TOTAL	YORK, JOHN W	6.0
ACT-CODE	TOTAL		84.0
	DR1 REACTIVE DOCUMENTATION		
		GIRARD, EDWARD H	4.0
EMPNME	TOTAL	LENAHAN, JOE	4.0
EMPNME	TOTAL	NEJFELT, GREGORY M	6.0
EMPNME	TOTAL	ROGGE, JOHN F	1.0
EMPNME	TOTAL		15.0
ACT-CODE	TOTAL		
	D0C ROUTINE DOCUMENTATION		
		GIBBONS, THOMAS D	12.0
EMPNME	TOTAL	GIRARD, EDWARD H	3.0
EMPNME	TOTAL	HARRIS, JOHN R	52.0
EMPNME	TOTAL	JACKSON, LOUIE H	38.0
EMPNME	TOTAL	KLEINSORGE, WILLIAM P	12.0
EMPNME	TOTAL	LENAHAN, JOE	22.0
EMPNME	TOTAL	LIU, WAN-CHENG	72.0
EMPNME	TOTAL	MCFARLAND, CHARLES R	5.0
EMPNME	TOTAL	NEJFELT, GREGORY M	6.0
EMPNME	TOTAL	ROGGE, JOHN F	25.0
EMPNME	TOTAL	RUFF, ALBERT B	25.0
EMPNME	TOTAL	SANDERS, WILLIAM F	89.0
EMPNME	TOTAL		

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		D0C ROUTINE DOCUMENTATION		
			WRIGHT, ROBERT W	13.0
EMPNME	TOTAL		YORK, JOHN W	24.0
EMPNME	TOTAL			402.0
ACT-CODE	TOTAL			
		LEP LICENSING - EMERGENCY PREPAREDNESS		
			JACKSON, LOUIE H	21.5
EMPNME	TOTAL		WRIGHT, ROBERT W	16.0
EMPNME	TOTAL			37.5
ACT-CODE	TOTAL			
		PAP ROUTINE PREPARATION		
			GIRARD, EDWARD H	24.0
EMPNME	TOTAL		HARRIS, JOHN R	26.0
EMPNME	TOTAL		HUNT, MILTON D	18.0
EMPNME	TOTAL		JACKSON, LOUIE H	41.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	8.0
EMPNME	TOTAL		LENAHAN, JOE	4.0
EMPNME	TOTAL		LIU, WAN-CHENG	17.0
EMPNME	TOTAL		MCFARLAND, CHARLES R	6.0
EMPNME	TOTAL		ROGGE, JOHN F	4.0
EMPNME	TOTAL		RUFF, ALBERT B	16.0
EMPNME	TOTAL		SANDERS, WILLIAM F	62.0
EMPNME	TOTAL		STETKA, THOMAS F	.0
EMPNME	TOTAL		WRIGHT, ROBERT W	6.0
EMPNME	TOTAL		YORK, JOHN W	4.6
EMPNME	TOTAL			228.0
ACT-CODE	TOTAL			
		PE1 ENFORCEMENT		
			ROGGE, JOHN F	2.0
EMPNME	TOTAL			2.0
ACT-CODE	TOTAL			

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM CP ISSUE DATE THROUGH END FY '83

REGION II - OL REVIEW
05000424 VOGTLE 1

			EMPLOYEE NAME	REGULAR HOURS
		PP1 ROUTINE INSPECTION		
EMPNME	TOTAL		ANG, WILLIAM P	8.0
EMPNME	TOTAL		GIBBONS, THOMAS D	12.0
EMPNME	TOTAL		GIRARD, EDWARD H	52.5
EMPNME	TOTAL		HARRIS, JOHN R	52.0
EMPNME	TOTAL		HUNT, MILTON D	11.0
EMPNME	TOTAL		JACKSON, LOUIE H	73.0
EMPNME	TOTAL		KLEINSORGE, WILLIAM P	15.0
EMPNME	TOTAL		LENAHAN, JOE	31.0
EMPNME	TOTAL		LIU, WAN-CHENG	86.0
EMPNME	TOTAL		MCFARLAND, CHARLES R	24.0
EMPNME	TOTAL		ROGGE, JOHN F	86.0
EMPNME	TOTAL		RUFF, ALBERT B	28.0
EMPNME	TOTAL		SANDERS, WILLIAM F	698.0
EMPNME	TOTAL		STETKA, THOMAS F	6.0
EMPNME	TOTAL		WRIGHT, ROBERT W	16.0
EMPNME	TOTAL		YORK, JOHN W	40.0
ACT-CODE	TOTAL			1,238.5
		PR1 REACTIVE ONSITE/OFFISTE INSPECTION		
EMPNME	TOTAL		DEBBAGE, ARTHUR G	8.0
EMPNME	TOTAL		GIBBONS, THOMAS D	8.0
EMPNME	TOTAL		GIRARD, EDWARD H	9.0
EMPNME	TOTAL		HARRIS, JOHN R	26.0
EMPNME	TOTAL		ROGGE, JOHN F	3.0
EMPNME	TOTAL		RUFF, ALBERT B	1.0
EMPNME	TOTAL		SANDERS, WILLIAM F	13.0
EMPNME	TOTAL		TODD, GREGORY A	2.0
EMPNME	TOTAL		WRIGHT, ROBERT W	9.5
ACT-CODE	TOTAL			79.5
		P1V INVESTIGATION		
EMPNME	TOTAL		HARRIS, JOHN R	6.0
EMPNME	TOTAL		RUFF, ALBERT B	2.0
EMPNME	TOTAL		TODD GREGORY A	32.0
EMPNME	TOTAL		URYC, BRUNO	5.0

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FROM OP ISSUE DATE THROUGH END FY '83

REGION II - GL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
	P1V INVESTIGATION		
ACT-CODE TOTAL			45.0
	QAT QA CHANGE REVIEWS & TOPICALS		
EMPNME TOTAL		JACKSON, LOUIE H	8.0
EMPNME TOTAL		WRIGHT, ROBERT W	21.0
ACT-CODE TOTAL			29.0
YR TOTAL			2,357.0
DOCKETNO TOTAL			8,005.3

R II 2

REGION II - OL REVIEW
05000424 VOGTLE 1

		EMPLOYEE NAME	REGULAR HOURS
FOR FISCAL YEAR '83			
1321	POWER FACIL. REPLACEMENT EXAM		
EMPNME	TOTAL	NORRIS, TIMOTHY L	44.0
PA-NUM	TOTAL		44.0
134	CERTIFICATION EXAMINATIONS		
EMPNME	TOTAL	JOHNSON, ARTHUR H	142.0
PA-NUM	TOTAL		142.0
YR	TOTAL		186.0
DOCKETNO	TOTAL		186.0
TITLE	TOTAL		1,248.0

prof 3990
Rand

REGION II - OL REVIEW
05000424 VOGTLE 1

		REVIEWER INITIALS	NAME OF REVIEWER	REGULAR HOURS
	APD ROUTINE DOCUMENTATION			
REV-INIT TOTAL		CIL	WCLIU	24.0
REV-INIT TOTAL		CSM	CRMCFARLAND	7.0
REV-INIT TOTAL		EHG	EHGIRARD	12.0
REV-INIT TOTAL		FFS	WFSANDERS	58.0
REV-INIT TOTAL		GMN	GMNEJFELT	2.0
REV-INIT TOTAL		HJC	JLCOLEY	16.0
REV-INIT TOTAL		JHO	JRHARRIS	47.0
REV-INIT TOTAL		JRR	JFROGGE	14.0
REV-INIT TOTAL		LHJ	LHJACKSON	20.0
REV-INIT TOTAL		MNH	MDHUNT	24.0
REV-INIT TOTAL		NGM	N MERRIWEATHER	36.0
REV-INIT TOTAL		RHR	RWWRIGHT	30.0
REV-INIT TOTAL		WJT	WJTOBIN	8.0
ACT-CODE TOTAL				298.0
	API ROUTINE ON-SITE/OFF-SITE INSPECTION			
REV-INIT TOTAL		CIL	WCLIU	26.0
REV-INIT TOTAL		CSM	CRMCFARLAND	16.0
REV-INIT TOTAL		EHG	EHGIRARD	16.0
REV-INIT TOTAL		FFS	WFSANDERS	524.0
REV-INIT TOTAL		HJC	JLCOLEY	25.0
REV-INIT TOTAL		JHO	JRHARRIS	50.0
REV-INIT TOTAL		JRR	JFROGGE	22.0
REV-INIT TOTAL		LHJ	LHJACKSON	16.5
REV-INIT TOTAL		MNH	MDHUNT	28.0
REV-INIT TOTAL		NGM	N MERRIWEATHER	30.5
REV-INIT TOTAL		RHR	RWWRIGHT	33.0
REV-INIT TOTAL		TDG	TDGIBBONS	2.0
ACT-CODE TOTAL				789.0
	APP ROUTINE INSPECTION PREPARATION			
REV-INIT TOTAL		AER	ABRUFF	8.0
REV-INIT TOTAL		CIL	WCLIU	4.0
REV-INIT TOTAL		CSM	CRMCFARLAND	4.0
REV-INIT TOTAL		EHG	EHGIRARD	7.0
REV-INIT TOTAL		FFS	WFSANDERS	42.0
REV-INIT TOTAL		GFH	GAHALLSTROM	24.0
REV-INIT TOTAL		HJC	JLCOLEY	6.0

REGION II - OL REVIEW
05000424 VOGTLE 1

		REVIEWER INITIALS	NAME OF REVIEWER	REGULAR HOURS
	APP ROUTINE INSPECTION PREPARATION			
REV-INIT TOTAL		JHO	JRHARRIS	22.0
REV-INIT TOTAL		LHJ	LHJACKSON	3.0
REV-INIT TOTAL		MNH	MDHUNT	8.0
REV-INIT TOTAL		PEK	WPKLEINSORGE	2.0
REV-INIT TOTAL		RHR	RWWRIGHT	16.0
REV-INIT TOTAL		TDG	TDGIBBONS	12.0
ACT-CODE TOTAL				158.0
	ARD REACTIVE DOCUMENTATION			
REV-INIT TOTAL		AER	ABRUFF	10.0
REV-INIT TOTAL		AFT	A TILLMAN	12.0
REV-INIT TOTAL		CIL	WCLIU	28.0
REV-INIT TOTAL		EHG	EHGIRARD	46.5
REV-INIT TOTAL		JRR	JFROGGE	2.0
REV-INIT TOTAL		JWL	JBLANKFORD	2.0
REV-INIT TOTAL		NGM	N MERRIWEATHER	6.0
REV-INIT TOTAL		WJT	WJTOBIN	2.0
ACT-CODE TOTAL				108.5
	ARI REACTIVE ON-SITE/OFF-SITE INSPECTION			
REV-INIT TOTAL		AER	ABRUFF	4.0
REV-INIT TOTAL		AFT	A TILLMAN	16.0
REV-INIT TOTAL		CIL	WCLIU	4.0
REV-INIT TOTAL		EHG	EHGIRARD	26.0
REV-INIT TOTAL		JHO	JRHARRIS	33.0
REV-INIT TOTAL		JRR	JFROGGE	8.0
REV-INIT TOTAL		MNH	MDHUNT	4.0
REV-INIT TOTAL		NGM	N MERRIWEATHER	32.0
REV-INIT TOTAL		RHR	RWWRIGHT	8.0
REV-INIT TOTAL		TDG	TDGIBBONS	10.0
REV-INIT TOTAL		WJT	WJTOBIN	9.0
ACT-CODE TOTAL				154.0
	ARP REACTIVE INSPECTION PREPARATION			
REV-INIT TOTAL		AER	ABRUFF	15.0
REV-INIT TOTAL		EHG	EHGIRARD	18.0
REV-INIT TOTAL		PEK	WPKLEINSORGE	2.0

REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKETS
FOR FISCAL YEAR '84 THRU 06/23/84

REGION II - OL REVIEW
05000424 VOGTLE 1

			REVIEWER INITIALS	NAME OF REVIEWER	REGULAR HOURS
	ARP	REACTIVE INSPECTION PREPARATION			
REV-INIT TOTAL			WJT	WJTOBIN	4.0
ACT-CODE TOTAL					39.0
	AS1				
REV-INIT TOTAL			FFS	WFSANDERS	.0
ACT-CODE TOTAL					.0
	AT	INSPECTION-RELATED TRAVEL			
REV-INIT TOTAL			AER	ABRUFF	5.0
REV-INIT TOTAL			CIL	WCLIU	7.0
REV-INIT TOTAL			CSM	CRMCFARLAND	4.0
REV-INIT TOTAL			EHG	EHGIRARD	7.0
REV-INIT TOTAL			FFS	WFSANDERS	4.0
REV-INIT TOTAL			HJC	JLCOLEY	7.0
REV-INIT TOTAL			JHO	JRHARRIS	17.0
REV-INIT TOTAL			JRR	JFROGGE	.0
REV-INIT TOTAL			LHJ	LHJACKSON	.5
REV-INIT TOTAL			MNH	MDHUNT	4.0
REV-INIT TOTAL			NGM	N MERRIWEATHER	15.5
REV-INIT TOTAL			RHR	RWWRIGHT	.0
REV-INIT TOTAL			SEG	S GUENTHER	8.0
REV-INIT TOTAL			TDG	TDGIBBONS	4.0
REV-INIT TOTAL			WJT	WJTOBIN	10.0
ACT-CODE TOTAL					107.0
	BB	SALP			
REV-INIT TOTAL			AER	ABRUFF	1.0
REV-INIT TOTAL			EHG	EHGIRARD	1.0
REV-INIT TOTAL			JHO	JRHARRIS	4.0
ACT-CODE TOTAL					6.0
	BC	EP LICENSING REVIEWS			
REV-INIT TOTAL			FFS	WFSANDERS	8.0
ACT-CODE TOTAL					8.0

REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKETS
FOR FISCAL YEAR '84 THRU 06/23/84

REGION II - OL REVIEW
05000424 VOGTLE 1

		REVIEWER INITIALS	NAME OF REVIEWER	REGULAR HOURS
	BD2 RESPONSE TO EVENTS/INCIDENTS			
REV-INIT TOTAL		BDH	BLHALL	2.0
REV-INIT TOTAL		JIE	J ENNIS	2.0
ACT-CODE TOTAL				4.0
	BE TECHNICAL SUPPORT FOR INVESTIGATIONS			
REV-INIT TOTAL		AFT	A TILLMAN	4.0
REV-INIT TOTAL		BAU	B URYC	.0
REV-INIT TOTAL		CIL	WCLIU	22.0
REV-INIT TOTAL		EHG	EHGIRARD	74.0
REV-INIT TOTAL		FFS	WFSANDERS	14.0
REV-INIT TOTAL		GET	GATODD	1.0
REV-INIT TOTAL		JWL	JBLANKFORD	2.0
REV-INIT TOTAL		NGM	N MERRIWEATHER	1.0
ACT-CODE TOTAL				118.0
	BH QUALITY ASSURANCE REVIEWS			
REV-INIT TOTAL		FFS	WFSANDERS	3.0
REV-INIT TOTAL		LHJ	LHJACKSON	18.0
ACT-CODE TOTAL				21.0
	BJ ALLEGATION FOLLOW-UP			
REV-INIT TOTAL		AER	ABRUFF	14.0
REV-INIT TOTAL		EHG	EHGIRARD	.0
REV-INIT TOTAL		FFS	WFSANDERS	9.0
REV-INIT TOTAL		JRR	JFROGGE	6.0
REV-INIT TOTAL		NGM	N MERRIWEATHER	82.0
ACT-CODE TOTAL				111.0
	NRR NRR TAC-RELATED ACTIVITY			
REV-INIT TOTAL		EHC	EACOOK	24.0
REV-INIT TOTAL		LTN	TLNORRIS	16.0
REV-INIT TOTAL		SEG	S GUENTHER	10.0
ACT-CODE TOTAL				50.0
DOCKETNO TOTAL				1,971.5

REGION II - OL REVIEW
05000424 VOGTLE 1

U.S.N.R.C. MANPOWER SYSTEM
REGULAR MAN HOURS EXPENDED FOR THE SELECTED DOCKET
FOR BLANK ACTIVITY CODES FOR FISCAL YEAR '84 THRU 06/23/84

		REVIEWER INITIALS	NAME OF REVIEWER	REGULAR HOURS
	131	POWER FACILITY INITIAL EXAMS		
REV-INIT TOTAL		EHC	EACOOK	16.0
PA-NUM TOTAL				16.0
	1322	POWER FACIL REQUAL EXAM		
REV-INIT TOTAL		LTN	TLNORRIS	16.0
PA-NUM TOTAL				16.0
	134	CERTIFICATION EXAMINATIONS		
REV-INIT TOTAL		EHC	EACOOK	8.0
REV-INIT TOTAL		SEG	S GUENTHER	10.0
PA-NUM TOTAL				18.0
DOCKETNO TOTAL				50.0
TITLE TOTAL				2,584.0

DISTRIBUTION:
PDR
LPDR
LFMB Actual Manpower File
RMDiggs, LFMB
CJHolloway, LFMB
Reg. Docket File
DWeiss, LFMB
LFMB Reactor File
LSolander, NRR
MKaltman, NRR
LFMB R/F

JAN 17 1985

Docket Nos. 50-390
and 50-391

Tennessee Valley Authority
ATTN: Mr. H. G. Parris
Manager of Power
500A Chestnut Street, Tower II
Chattanooga, Tennessee 37401

Gentlemen:

As you are aware, 10 CFR 170 of the Commission's regulations for license and inspection fees was revised effective June 20, 1984. Section 170.12(b) of the revised rule provides that for applications for permits, licenses, facility reference design approvals, and special projects which have been on file with the Commission for review for six months or longer, the first bill for accumulated review costs would be sent to the applicant at the time the rule becomes effective and thereafter at six-month intervals or when the review is completed, whichever is earlier. The first bill for the operating license (OL) review will include applicable professional staff review time expended through June 23, 1984, and contractual support services expended to May 31, 1984. Subsequent bills covering six-month reviews will be issued approximately ninety days after the end of each six-month period which closes in December and June of each year.

Consistent with the requirements of 10 CFR 170.12(b), we have completed the cost analysis for the Watts Bar 1 OL application review for the period specified above. The cost through that period for Watts Bar 1 is $3,324,781. The cost of the OL review through June 23, 1984 exceeds the maximum fee of $3,077,400 as stated in 10 CFR 170.21. Accordingly, $3,077,400 is the maximum amount that may be assessed for the OL review under 10 CFR 170 as revised June 20, 1984. The Office of Resource Management has been notified to bill your Company $3,077,400 for Watts Bar 1. When making payment, please make reference to the invoice number on your bill.

Enclosed is a copy of the revision to Part 170 as sent to all applicants and licensees on May 24, 1984.

Sincerely,

Original Signed by
Wm. O. Miller

8501230503

William O. Miller, Chief
License Fee Management Branch
Office of Administration

OFFICE			LFMB:ADM	LFMB:ADM	LFMB:ADM
SURNAME	Enclosure: Revision to Part 170 w/Notice of 5/24/84		CJHolloway:eb	RMDiggs	WOMiller
DATE			1/14/85	1/15/85	1/15/85

OFFICIAL RECORD COPY

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Docket No. 50-390

JAN 17 1985

MEMORANDUM FOR: Files

THRU: William O. Miller, Chief, License Fee Management Branch, ADM

FROM: C. James Holloway, Jr., Assistant Chief, License Fee Management Branch, ADM

SUBJECT: Watts Bar 1 OPERATING LICENSE REVIEW COSTS

10 CFR 170 of the Commission's regulations for license fees was revised effective June 20, 1984. Section 170.12(b) of the revised rule provides that for applications for operating license (OL) review which have been pending with the Commission for six months or longer, the first bill for accumulated review costs would be sent to the applicant at the time the rule becomes effective and at six-month intervals thereafter until the review is completed, whichever is earlier. The first bills for OL review will include applicable professional staff review time expended through June 23, 1984, and contractual support services expended to May 31, 1984. Subsequent bills covering six-month reviews will be issued approximately ninety days after the end of each six-month period which closes in December and June of each year.

In accordance with Section 170.12(b), we have reviewed the cost incurred by the various program offices directly involved in the review of the Watts Bar 1 operating license. Attached is a summary of the review costs as well as the supporting documentation from the program offices. The attachment shows that a total of $3,324,761 was expended through June 23, 1984 for the OL review. The cost of the OL review through June 23, 1984 exceeds the maximum fee of $3,077,400 as stated in 10 CFR 170.21. Accordingly, $3,077,400 is the maximum amount that may be assessed for the OL review under the 10 CFR 170 as revised June 20, 1984. However, in the event that the regulation is subsequently revised and the ceiling is raised to a higher number or eliminated before Watts Bar 1 is licensed, then additional fees could be assessed up to any new ceiling or for the full cost if the ceiling were eliminated. A refund would be made if the amount in the rule at the time the license is issued is less than $3,077,400.

C. James Holloway, Jr., Assistant Chief
License Fee Management Branch
Office of Adminstration

8501230505

Enclosure:
Summary of costs and supporting
documentation

Tennessee Valley Authority
Operating License Review Costs Through June 23, 1984

FACILITY: Watts Bar 1

DOCKET NO.: 50-390

Program Office Review	Costs Per Professional Staff-hour	Professional Staff-hours Expended	Staff-hour Costs	Contractual Costs	Total Costs
1. NRR	$39	48,200.7	$ 1,879,827	$ 409,908	2,289,735
2. IE-HQ	36	677.0	24,372	-	24,372
3. REGIONS	36	26,990.8	971,659	-	971,669
4. ACRS	50	466.0	23,300	-	23,300
5. NMSS	38	412.75	15,685	-	15,685

Total Cost: $3,324,761

ENCLOSURE 1

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Holloway
Work Copy

September 25, 1984 84 SEP 25 P2:37

US NRC
OF FEE MGMT BR

MEMORANDUM FOR: Patricia G. Norry, Director
Office of Administration

FROM: Jesse L. Funches, Director
Planning and Program Analysis Staff
Office of Nuclear Reactor Regulation

SUBJECT: 10 CFR 170 NOTE OF FINAL RULEMAKING - REQUESTED LICENSE FEE INFORMATION

Enclosed is the NRR response to your memorandum of July 3, 1984. Our response includes: 1) a listing of the dockets for which we have assembled data; 2) the professional staff hours that have been reported to the RAMS system, by docket, indicating regular and non-regular hours, and any hearing effort reported, covering the period between Construction Permit issuance and June 23, 1984; 3) a listing of plants that have had contested hearings; 4) a listing of casework plants that have associated PRA review effort, including hours reported and associated FIN numbers; 5) a listing of all identified contract effort for all dockets that have specific technical assistance charges, with PRA review effort charges identified; and 6) a listing of professional staff hours reported and contract costs for topical reports. Not included are contract costs for FINs covering one or more non-docket specific topical reports for the period 10/1/83 - 6/30/84, which will be forwarded to you under separate cover when software fixes to the TAPSS system are completed.

Enclosure 1 is a list of all OL applications currently on file and applications for standard design reviews that we have gathered the information you requested. For EPRI SDA and FNP 1-B, the Project Managers have decided that these projects are not fee-recoverable.

Enclosure 2 indicates professional staff hours for each docket that was reported in the RAMS system from the date of the Construction Permit issuance through June 23, 1984. Regular and non-regular professional staff hours are indicated. From the total hours shown, hearing effort, is broken out. To the extent feasible, data on hours that were reported have been reviewed by the Project Managers. However, in some instances where there are hours charged many years ago, there is no basis for reviewing hours reported, and these hours are included as they are reported in RAMS.

Enclosure 3 indicates a listing of plants that have had contested hearings.

8410100654

Enclosure 4 is a listing of Casework plants that have associated PRA review effort, showing professional staff hours reported in RAMS and any associated FIN numbers.

Enclosure 5 lists all identified contract effort for all dockets that have specific technical assistance charges. The first part indicates charges through September 30, 1983. The printout indicates any associated charges by docket for the period October 1, 1983 through May 30, 1984. As you are aware, technical assistance charges are reported on a monthly basis, not weekly, therefore these charges are through May 30, 1984 instead of June 23, 1984. PRA review effort is identified.

Enclosure 6 is a printout listing professional staff hours reported and contract costs associated with topical reports submitted after March 23, 1978 and still being reviewed through June 23, 1984. Contract costs for non-docket-specific topical reports for the period 10/1/83 - 6/30/84 are not available at this time. They will be submitted at a later date.

Please contact Lars Solander of my staff if you have any questions.

Jesse L. Funches, Director
Planning and Program Analysis Staff
Office of Nuclear Reactor Regulation

Enclosures:
As stated

OFFICE OF NRR

Plant	Docket No.	Manpower Hours Reg.	Non Reg. Hrs.	Total	Hearing Charges Out of Reg.	Non Reg. Hrs
Nine Mile Pt. 2	50-410	20,156.1	777.1	20,933.2	90	0
Palo Verde 1	50-528	31,166.3	1,883.8	33,050.1	494.5	44.5
Palo Verde 2	50-529	1,995.6	60.8	2,056.4	872.8	11
Palo Verde 3	50-530	210.8	4	214.8	6	0
Perry 1	50-440	34,003.7	1,716.8	35,720.5	4,052.2	119.5
Perry 2	50-441	342.0	14.5	356.5	16	0
River Bend 1	50-458	23,970.3	832.1	24,802.4	54	0
River Bend 2	50-459	891.5	39.0	930.5	0	0
Seabrook 1	50-443	43,444.4	2,945.2	46,389.6	2,365.5	223.0
Seabrook 2	50-444	1,687.9	100.5	1,788.4	241.0	37.0
Shearon Harris 1	50-400	32,456.5	1,138.9	33,595.4	1,631.0	156.0
Shearon Harris 2	50-401	425.0	4.5	429.5	0	0
Shoreham 1	50-322	68,062.2	4,056.1	72,118.3	15,365.8	1,017.9
South Texas 1	50-498	26,756.3	1,223.1	27,979.4	8,700.5	394.4
South Texas 2	50-499	3,794	33	3,827	2,202	17
Vogtle 1	50-424	14,514.5	748.6	15,263.1	409	122
Vogtle 2	50-425	216	9.5	225.5	0	0
Waterford 3	50-382	41,018	3,894.7	44,912.7	877.8	72
Watts Bar 1	50-390	48,200.7	2,884.6	51,085.3	565	9
Watts Bar 2	50-391	2,033.7	39.6	2,073.3	0	0
Westinghouse	50-601	1,208	55	1,263	0	0
Wolf Creek 1	50-482	20,173.7	1,163.9	21,337.6	458.3	31.4
WPPSS 1	50-460	5,470.5	229.2	5,699.7	520.5	19
WPPSS 1	50-508	22,961	1,249.3	24,210.3	1,064.5	109
Yellow Creek 1	50-566	1,645	116	1,761	81	3

ENCLOSURE 3

Plants Which Have Had Contested Hearings

Plant	Docket No.s
Byron 1 & 2	50-454, 455
Catawba 1 & 2	50-413, 414
Clinton 1	50-461
Comanche Peak 1 & 2	50-445, 446
Diablo Canyon 2	50-323
Fermi 2	50-341
Limerick 1 & 2	50-352, 353
Marble Hill 1 & 2	50-546, 547
Midland 1 & 2	50-329, 330
Palo Verde 1, 2, 3	50-528, 529, 530
Perry 1 & 2	50-440, 441
Seabrook 1 & 2	50-443, 444
Shearon Harris 1 & 2	50-400, 401
Shoreham 1	50-322
Waterford 3	50-382
Wolf Creek 1	50-482
WPPSS 1	50-460

Watts Bar 1 not a contested case per this listing

NRR Technical Assistance Contracts Through 9/30/83

OFFICE OF NRR

Plant	Docket No.	Total Cost	PRA Portion
Shoreham 1	50-322	781,001	- 0 -
South Texas 1 & 2	50-498/499	497,839.89	- 0 - Unit 1: 247,920 / Unit 2: 247,920
Unit 1		160,545.24	160,545 / —
Unit 2		55,128.24	— / 55,123
Total all costs		713,513.37	409,465 / 304,043
Vogtle 1 & 2	50-424/425	54,303	- 0 - Unit 1: 27,152 / Unit 2: 27,151
Unit 1		13,109	13,109 / —
Unit 2		0	— / —
Total all costs		67,412	40,261 / 27,151
Waterford 3	50-382	1,283,157.51	- 0 -
Watts Bar 1 & 2	50-390/391	358,439.75	- 0 - Unit 1: 179,220 / Unit 2: 179,220
Unit 1		103,189.00	103,189 / —
Unit 2		15,200.00	— / 15,200
Total all costs		476,828.75	282,409 / 194,420
Westinghouse	50-601	32,784	- 0 -
Wolf Creek 1	50-482	534,506.36	- 0 -
WPPSS-1	50-460	39,634	- 0 -
WPPSS-3	50-508	127,289.92	- 0 -
Yellow Creek 1	50-566	None	- 0 -

R-1206307

NUCLEAR REGULATORY COMMISSION

RUN DATE: 09/17/84

TECHNICAL ASSISTANCE PROGRAM SUPPORT SYSTEM

October 1, 1983 - May 31, 1984 REPORT FOR LICENSE FEE ASSESSMENTS

PERIOD: ~~SEPTEMBER 1, 1984 THRU SEPTEMBER 30, 1984~~
VENDOR/FACILITY: WATTS BAR 1 (DOCKET # 0390)

FIN	CONTR	CUMULATIVE AMOUNT IDENTIFIED PRIOR TO THIS PERIOD	AMOUNT IDENTIFIED THIS PERIOD	CUMULATIVE AMOUNT IDENTIFIED INCLUDING THIS PERIOD	COST INCURRED AND VALIDATED IN THIS PERIOD	COST INCURRED PRIOR TO THIS PERIOD BUT VALIDATED IN THIS PERIOD	
A3349	BNL	0.00	875.00	875.00		03/84	875.00
A8457	INEL	0.00	1,824.00	1,824.00		03/84	1,117.00
						04/84	492.00
						05/84	215.00
A8458	INEL	0.00	11,564.00	11,564.00		12/83	234.00
						03/84	4,731.00
						04/84	4,983.00
						05/84	1,638.00
A8815	INEL	0.00	4,123.00	4,123.00		04/84	3,878.00
						05/84	145.00
A7279	LANL	0.00	85,100.00	85,100.00		10/83	100.00
						11/83	11,200.00
						12/83	2,800.00
						01/84	11,200.00
						02/84	18,500.00
						03/84	20,700.00
						04/84	18,500.00
						05/84	1,100.00
B2340	PNL	0.00	801.40	801.40		10/83	200.00
						02/84	1.40
						03/84	200.00
						05/84	400.00
B2542	PNL	0.00	23,212.00	23,212.00		04/84	12,000.00
						05/84	11,212.00
FACILITY TOTAL -		0.00	127,499.40	127,499.40	0.00		127,499.40

NRC Form 366
(12-83)

BILL FOR COLLECTION

BILL NUMBER (Note on remittance)
D0152

MAKE CHECKS PAYABLE TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL TO:
U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF RESOURCE MANAGEMENT
DIVISION OF ACCOUNTING AND FINANCE
WASHINGTON, DC 20555

BILL DATE
1/23/85

PAYMENT DUE DATE
3/23/85

LICENSE NUMBER (If applicable)

REFERENCE NUMBER (If applicable)

TO:
Tennessee Valley Authority
Attn: Mr. H. G. Parris
Manager of Power
500A Chestnut Street, Tower II
Chattanooga, TN 37401

CONTACT:
NAME
Janet M. Rodriguez
TELEPHONE
AREA CODE 301 NUMBER 492-4200

DESCRIPTION	AMOUNT
Operating License Review for Watts Bar 1 (see attached for details)	$3,077,400.00

'85 JAN 23 A10 40
U.S.N.R.C.
FEE PYMT. BRANCH

AMOUNT DUE (See Terms) $3,077,400.00

TERMS. Interest will accrue from the bill date at the annual rate of 9.00 %, except that no interest will be charged if the amount due is paid in full by the payment due date.

NOTE. The NRC debt collection regulations are found in 10 CFR 15 and are based on the Federal Claims Collection Act as amended by the Debt Collection Act of 1982. If there are any questions about the existence or amount of the debt, refer to these regulations and statutes, or contact the individual named above. The revocation of a license does not waive or affect any debt then due the NRC from the licensee.

PRESENT AND SEPARATED EMPLOYEES: The attached Notice of Due Process Rights applies to both current and former employees.

A/16