## SOUTHERN CALIFORNIA EDISON COMPANY TOPICAL REPORT SCE-1-A CHANGE NOTICE

Change Notice Number: 36

Affected Amendment: 12

Affected Pages: 17-vii, 17.0-2, 17.0-3, 17.0-4, 17.1-1, 17.1-4, 17.1-22, 17.1-32, 17.1-45, 17.1-50, 17.1-51, 17.2-1, 17.2-5, 17.2-6, 17.2-8, 17.2-10, 17.2-12, 17.2-25, 17.2-64

Description of Change:

The changes address a reorganization within the Nuclear Oversight Division, the addition of the Safety Engineering Group which includes the Nuclear Safety Group, the Independent Safety Engineering Group, and the Quality Engineering Group. Additionally, other administrative changes clarifying records management and other title changes are included.

Reason for change (including basis for concluding that the change satisfies the criteria of 10CFR50, Appendix B, and the quality assurance program commitments previously accepted by the NRC):

To accurately reflect Quality Assurance Program organization within Southern California Edison per 10CFR50, Appendix B, Criterion I.

Change \_\_\_\_\_ does <u>X</u> does not reduce commitments previously accepted by the NRC.

Approvals:

Manager of Nuclear Oversight

Date Submitted to NRC:



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#### 17.0.1 DEFINITIONS

Following are definitions of terms used in this report. Additional terms not defined by this subsection are defined in ANSI N45.2.10, as endorsed by Regulatory Guide 1.74.

<u>Architect-Engineer</u> (A-E) - An organization contracted to design, construct and perform backfit modifications to a nuclear generating station.

<u>Accept-As-Is</u> - A disposition to accept a nonconforming item without further work as the deviation is judged not to negatively affect the as-designed quality or function of the item.

<u>Administrative Authority</u> - The responsibility of an individual to direct the work (excluding technical direction) of another individual or group including the responsibility for hiring, firing, salary review, and position assignment of an individual. See Technical Authority.

<u>Auditor</u> - An individual who performs any portion of an audit, including lead auditors, technical specialists and other such as management representatives and persons in training to become Lead Auditors.

<u>Construction Material Tests</u> - Physical and chemical testing of materials intended for construction use to verify conformance with material specifications.

<u>Consultant</u> - A person or organization retained under contract by SCE to provide expert advice, recommendations, or work.

<u>Design Disclosure Documents</u> - Drawings, P&I diagrams, calculations, or specifications which define items and which are needed to translate engineering concepts into structures, systems and components.

<u>Engineering Construction Project (ECP)</u> - A major modification to an operating nuclear generating station.

<u>Corporate Documentation Management (CDM) Centers</u> - The locations where project documents including quality assurance records, are maintained in accordance with established documentation retention and control requirements. •

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<u>Engineering Review Board (ERB)</u> - Those cognizant individuals responsible for providing approvals of Accept-As-Is or repair dispositions of nonconformance reports.

Engineering Review Process - The procedure used to determine dispositions of nonconforming items.

<u>Initial Startup Tests</u> - Tests conducted after fuel loading and prior to commercial operation that confirm the design bases and demonstrate, where practical, that the plant is capable of withstanding the anticipated transients and postulated accidents.

<u>In-Service Inspection</u> - The planned and periodic nondestructive examinations performed on installed and/or operating structures, systems, and components, as required by Section XI of the ASME Boiler and Pressure Vessel Code.

<u>In-Service Tests</u> - Testing which is conducted to satisfy the requirements of Section XI of the ASME Boiler and Pressure Vessel code.

<u>Modification Tests</u> - Those tests performed during or after completion of a modification to demonstrate that the affected structure, system or component can perform its design function and that it is compatible with existing plant systems. Includes tests similar to those performed during the initial plant construction and startup.

<u>Nuclear Fuel</u> - Fuel assemblies including but not limited to the following items: fuel rods, poison rods (where applicable), spacer grids, control element assembly guide tubes, and end fittings.

<u>Nuclear Utility Procurement Issues Committee (NUPIC)</u> - An organization of Nuclear Utilities that performs audits of vendors for the nuclear industry and provides a forum to discuss nuclear procurement issues.

<u>Nuclear Steam Supply System (NSSS) Supplier</u> - An organization contracted to design and manufacture a nuclear steam supply system for a nuclear generating station.

<u>Qualification</u> - Required acts to select a source for providing 3 items or services.

<u>Preoperational Tests</u> - Tests conducted to demonstrate the capability of items to meet safety-related performance requirements.

<u>Procurement Documents</u> - Contract documents including purchase orders, work assignments, memoranda of changes, and applicable design disclosures. 12CN28

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<u>Project Direction</u> - Direction or instructions concerned with project operations and defining when work is to be accomplished. Includes coordination and day-to-day direction of activities of project entities receiving technical direction from others.

<u>Project Engineer</u> - An assigned engineer who performs project liaison activities between the Project Management Organization from which project direction is received and the engineering organization from which technical direction is received.

<u>Project Group Leader</u> - An individual assigned within a discipline which is providing support to a project who is responsible to provide functional direction for that support.

<u>Prototype Tests</u> - Tests conducted in support of design activities to demonstrate the adequacy of the design to perform under the most adverse conditions.

<u>Quality-Affecting Activities</u> - Activities of people which either do or could influence quality of Safety-Related items or work, including designing, purchasing, constructing, fabricating, handling, shipping, storing, cleaning, preserving, erecting, installing, inspecting, testing, operating, maintaining, repairing, refueling, or modifying. Also includes activities required by Station Technical Specifications or otherwise licensed by the NRC.

<u>Quality Assurance Functional Direction</u> - Directions regarding quality assurance matters provided by the SCE Nuclear Oversight Division to other organizations which have been delegated the work of establishing and executing portions of the Quality Assurance Program.

<u>Reference Standards</u> - Standards (this is primary, secondary and working standards, where appropriate) used in a calibration program. These standards establish the basic accuracy limits for that program.

<u>Reject</u> - A disposition to remove a nonconforming item from use due to its unsuitability for the intended purpose.

<u>Safety-Related</u> - Applies to the prevention or mitigation of the consequences of postulated accidents that could cause undue risk to the health and safety of the public.

<u>Shop Tests</u> - Tests conducted at the source of fabrication to verify conformance with design requirements stipulated in design disclosure documents.

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17.1 QUALITY ASSURANCE DURING THE DESIGN AND CONSTRUCTION PHASE 7

17.1.1 ORGANIZATION

#### 17.1.1.1 <u>SCOPE</u>

This subsection describes the SCE organizational structure and responsibilities for the Quality Assurance Program for SCE nuclear generating stations during the design and construction phase in compliance with Regulatory Guide 1.28 (reference Table 17.1-1). It includes a description of the interfaces with other organizations which may be delegated the work of establishing and executing portions of the Quality Assurance Program. The methods used for maintaining responsibility for delegated quality assurance work are identified as well as the management measures that provide for independence of the SCE Quality Assurance Organization.

### 17.1.1.2 <u>General Responsibilities</u>

During the design and construction phase, the following departments within SCE are involved in quality-affecting activities:

Responsibilities Departments Licensing, Nuclear Nuclear Engineering Engineering, Nuclear Safety and Licensing Safety, Quality Assurance, 12CN#31 Procurement and Shipping of Nuclear Fuel, Design and Construction Management, and Prerequisite Test Program Management, ECP Project Management Training Program for Nuclear Generation Site Operators, Operating Procedure Development, Handling, Storage and 9CN#14 and Warehousing of Material and 12CN#36 Equipment, and Records Management Procurement and Shipping Fuel and Material 12CN#31 Material and Equipment Management (except nuclear fuel) 9CN#25 Records Storage and Administrative Services 12CN#36 Retrieval 11CN#25 12CN#31 Collection of Meteoro-Engineering, Planning and Research Environmental logical Data Affairs Division

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- 17.1.1.4 (continued)
  - B. Ten years experience in design, fabrication construction, testing, operation, or quality assurance related to the nuclear power field.
  - C. Management and administrative ability demonstrated by experience and training.
  - D. Extensive knowledge of regulatory requirements for nuclear generating stations.

The Nuclear Oversight Division under the direction of the Manager of Nuclear Oversight develops and administers the Quality Assurance Program for the design and construction phase of SCE nuclear generating stations. It is comprised of engineers with expertise in the various disciplines required for performing quality assurance and quality control activities. This organization audits, inspects, or otherwise verifies that activities within the scope of the SCE Quality Assurance Program are correctly performed either by SCE or other organizations delegated work.

The Nuclear Oversight Division has the authority and 12CN#35 organizational freedom to:

- A. Identify quality problems.
- B. Initiate, recommend, or provide solutions through designated channels.
- C. Verify implementation of solutions.

Additional responsibilities of Nuclear Oversight Division 12CN#36 personnel during the design and construction phase are listed 12CN#35 on Table 17.1-3. 9CN13

A Site Quality Assurance Manager and Quality Assurance Supervisors are assigned to each nuclear generating station under design and construction. They are responsible for directing and managing the activities of the quality assurance engineers. 12CN#36 9CN#13

A Site QC Manager and QC Supervisors are responsible for directing the activities of site QC personnel. QC personnel provide site inspection and surveillance of safety related items and activities and non-safety related activities when requested by Station or Project Management.

Quality Assurance and Quality Control Managers and Supervisors have the responsibility and authority, delineated in writing, to stop unsatisfactory work and to control further processing, delivery, and installation of nonconforming items. 9CN#13

# 17.1.7 CONTROL OF PURCHASED MATERIAL, EQUIPMENT, AND SERVICES

### 17.1.7.1 <u>Scope</u>

This subsection describes the measures utilized by SCE to control the procurement of material, equipment, and services purchased directly or through contractors and subcontractors in compliance with applicable codes and standards.

# 17.1.7.2 Control of Purchased Material, Equipment and Services

Prior to award of purchase order or contract, suppliers to SCE are subject to technical, and quality assurance evaluations as applicable by qualified SCE Engineering and Quality Assurance personnel. Quality Assurance evaluation of suppliers shall not apply to standard off-the-shelf items and basic commodities where required quality can adequately be determined by receipt inspection or post-installation checkout or test. The Quality Assurance evaluation may be accomplished by one or more of the following methods:

- Review of objective evidence establishing suppliers' capability to comply with the lOCFR50, Appendix B, criteria, applicable to the type of material, equipment, or service to be procured.
- Review of available previous records and performance of suppliers that provide similar products and services of the type to be procured.
- Review of audit/evaluation records generated by contractors, consultants, utilities/Licensees acting on behalf of SCE or organizations such as the Nuclear Utilities Procurement Issues Committee (NUPIC). Prior to any award based on qualification using this method(s), the audit/evaluation records are reviewed by SCE Nuclear Oversight to ensure applicability.
- Survey of suppliers' facilities and quality assurance programs to determine suppliers' capability to supply a product or service which meets the design, manufacturing, and quality requirements.

Results of these reviews and surveys are documented and forwarded to the Fuel and Material Management Department and to the CDM Center.

Surveillance of suppliers when required, is performed during fabrication, inspection, testing, and shipment. This surveillance activity, as further described in Subsections 17.1.10 and 17.1.18, is planned and performed in accordance with written procedures to assure compliance to purchase order requirement. These procedures provide for the following: 12CN#35 12CN#36

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# 17.1.11.2 (continued)

Construction Tests are conducted in compliance with test procedures normally prepared by the A-E and testing contractors performing the tests. The A-E is responsible for approval of construction test procedures and for the review and evaluation of test results. "The Nuclear Engineering, Safety and Licensing Department is responsible for management of the test program.

Prerequisite Tests are conducted in accordance with a Startup and Test Manual for the applicable station. These manuals are the responsibility of the Nuclear Engineering, Safety and Licensing Department and Nuclear Generation Site Department. They contain descriptions of organization's functions, authority, responsibility, and the policies and procedures for the conduct of the test program as well as Preoperational and Startup Tests. The technical portions of these programs, including quality assurance requirements, are contained in test procedures prepared by SCE, A-E's, NSSS Suppliers, and other major contractors. These procedures are approved by appropriate 12CN#36 members of a Test Working Group and by the SCE Nuclear Oversight Division (NOD). The Test Working Group consists of cognizant SCE, A-E, NSSS Supplier, and other major contractor representatives involved in the applicable project. Evaluation and approval of test results is also the responsibility of this group.

Implementation of the Construction and Prerequisite Test Program may be delegated to the A-E with program management retained by the Nuclear Engineering, Safety and Licensing Department. Nuclear Oversight Division performs audits and inspection surveillance of the test program to assure compliance with SCE Quality Assurance Program requirements.

The SCE test program policy requires that modifications, repairs, and replacements of items be tested in the same manner, using the same design and test requirements as the original items. If alternatives are required, they must be reviewed and approved by the same organizations that established the original requirements or alternate organizations which have been provided sufficient background information.

Records of tests, described herein, which are performed at a jobsite, are forwarded to CDM-SONGS and are available for audit by the Nuclear Oversight Division.

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17.1.18.2 (continued)

- o External audits by the SCE Nuclear Oversight 12CN#35 Division on A-E's, NSSS Suppliers, and other
- External audits by the A-E's, NSSS Suppliers, Contractors, Consultants, Utilities/Licenses acting on behalf of SCE or other organizations such as NUPIC. The SEC Nuclear Oversight Division may participate in these audits, on a selective basis, as an observer or active participant.
   Whenever these audits are utilized by SCE to satisfy SCE audit requirements, the results are reviewed for acceptability by Nuclear Oversight.

Each supplier's quality assurance program acceptability is 2determined initially prior to work commencement. This 421.15 determination is made by means of:

- Audits performed by the licensee/principal contractor, or
- evaluation of documented results of audits performed
  by sustaining members of the Nuclear Procurement Issues
  Committee (NUPIC).
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If acceptable, the supplier is placed on the approved supplier list.

Audits are scheduled based upon the status of work progress, importance to safety of the activities being performed, and prior experience with the organizations being audited. Audits are initiated early to assure effective quality assurance during design, procurement, and contracting activities. Audit schedules are prepared compatible with the progress of work. These schedules provide for coverage of applicable 10CFR50, Appendix B criteria implementation.

A formal evaluation of suppliers performing continuing work is performed each year. This evaluation determines for which 2suppliers a reaudit is required during the upcoming year. This evaluation considers pertinent factors such as the results of other audits, history of performance of product and/or purchased service and effectiveness of implementation of the supplier's quality assurance program. In addition, the complexity of the component concerned and the degree of quality and process control required during manufacturing are considered.

This evaluation is documented and approved by the Manager of Nuclear Oversight and placed in supplier quality history files. ||12CN#35

Regardless of the results of the evaluation, the suppliers performing continuing work are subjected to an initial audit and are reaudited every three years. Audits of suppliers performing limited duration assignments are conducted at least once during the life of the contract. If at the time of the

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TABLE 17.1-3

NUCLEAR OVERSIGHT DIVISION ACTIVITIES DESIGN AND CONSTRUCTION

The following are SCE Nuclear Oversight Division personnel activities during the design and construction of nuclear generating stations:

- 1. Review design and procurement documents to verify incorporation of appropriate quality assurance requirements.
- 2. Develop quality assurance chapters for PSAR's and FSAR's and prepare quality assurance Topical Reports.
- 3. Prepare and maintain quality assurance manuals, procedures and instructions.
- 4. Review and approve quality assurance procedures and instructions developed by other internal organizations.
- 5. Evaluate and approve potential bidder's quality assurance manuals. Conduct internal audits of SCE organizations.
- Initiate nonconformance reports, corrective action reports, and followup to assure proper implementation of corrective action.
- 7. Participate in and provide quality assurance training.
- Provide written reports to management regarding status of activities, corrective actions required, or unresolved problems.
- 9. Support the Corporate Documentation Management Centers and Document Control Centers to assure proper filing and retention of appropriate quality assurance documentation.

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17.1-3 (continued)

- 10. Perform inspection/surveillance over all Safety-Related jobsite activities.
- 11. Conduct audits of A-E's and other contractors' activities at the jobsite.
- 12. Perform quality assurance preaward surveys of bidder's facilities and quality assurance programs.
- 13. Perform inspection/surveillance at supplier's facilities.
- 14. Conduct audits of A-E's NSSS Suppliers and other contractors and suppliers to SCE.

4 12CN#36 12CN#35 17.2 QUALITY ASSURANCE DURING THE OPERATIONS PHASE

## 17.2.1 ORGANIZATION

# 17.2.1.1 <u>SCOPE</u>

This subsection describes the SCE organizational structure and responsibilities for establishing and executing the Quality Assurance Program for SCE operational nuclear generating stations, in compliance with Regulatory Guides 1.8, 1.28 and 1.33 (reference Table 17.2-1). It includes a description of the interfaces with other organizations who may be delegated the work of establishing and executing portions of the Quality Assurance Program. The methods used for maintaining responsibility for delegated portions of the Quality Assurance Program are identified as well as the management measures that provide the independence of the SCE Quality Assurance Organization.

# 17.2.1.2 General Responsibilities

During the operational phase, the following departments within SCE are involved in quality-affecting activities:

Departments	Responsibilities	
Nuclear Engineering, Safety and Licensing	Licensing, Nuclear Engineering, Nuclear Safety, Radiological Environmental Monitoring, Corporate Emergency Planning, Quality Assurance, Design and Construction, Preoperational and Start-up Testing, ECP Project Management. Procurement and Shipping of Nuclear Fuel, Spent Fuel Shipping Services, Special Nuclear Material Accountability	
Nuclear Generation Site	Station Operation, Maintenance, Refueling, Testing, In-Service Inspection, Station Safety, Handling, Storage and Warehousing of Material and Equipment, and Records Management	12CN#31 12CN#36
Fuel and Material Management	Procurement and Shipping of Material and Equipment (except nuclear fuel)	
Administrative Services	Records Storage and Retrieval	12CN#36

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## 17.2.1.4 (continued)

The Vice President, Nuclear Engineering, Safety and Licensing, is responsible for apprising the Management of the effectiveness of the Quality Assurance Program. He is involved in the disposition of nonconformances of unusual complexity, and acts upon trending studies that indicate quality problems of a possible generic nature submitted to him by the Manager of Nuclear Oversight. 12CN#35

The Vice President, Nuclear Engineering, Safety and Licensing, through the Manager of Quality Assurance, exercises the Administrative Authority for the Nuclear Oversight Division. Direction for implementing the Nuclear Oversight Division is provided to individuals and groups by the Vice President, Nuclear Engineering, Safety and Licensing, through the Manager of Nuclear Oversight.

12CN#35 The Manager of Nuclear Oversight, reports directly to the Vice President, Nuclear Engineering, Safety and Licensing, and has the responsibility for development, maintenance, and surveil-9CN#13 lance of the Quality Assurance Program as described in Quality Assurance manuals. These manuals are reviewed and approved by the Manager of Nuclear Oversight, and the Vice President, Nuclear 12CN#35 Engineering, Safety and Licensing. Other organizations involved with Quality Assurance Program implementation, as described in Subsection 17.2.1, review and comment on the Quality Assurance manuals, particularly as they apply to their area of involvement. 9CN#13 The Manager of Nuclear Oversight, is responsible for identifying any conditions adverse to quality and reporting them to the Vice 12CN#35 President, Nuclear Engineering, Safety and Licensing, and to 9CN#13 the Nuclear Control Board (NCB) of which he is a member. In addition, the Manager of Nuclear Oversight, is responsible for surveillance of Quality-Affecting Activities and has the 12CN#35 authority to Stop Work or delegate this authority, in writing, 9CN#13 to other personnel.

The minimum qualification requirements for the position of Manager of Nuclear Oversight, are as follows:

- Bachelor of Science Degree in one of the engineering disciplines from an accredited college or university.
- Ten years experience in design, fabrication, construction, testing, operation, or quality
   9CN#13 assurance related to the nuclear power field.
- Management and administrative ability demonstrated by experience and training.
- Extensive knowledge of regulatory requirements for nuclear generating stations.

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## 17.2.1.4 (continued)

The Quality Assurance Organization, as presented on Figure 17.2-1, under the direction of the Manager of Nuclear Oversight develops and administers the Quality Assurance Program for the operational phase of nuclear generating stations. It is comprised of engineers with expertise in the various disciplines required for performing quality assurance and quality control activities. This organization audits, inspects, or otherwise verifies that activities within the scope of the SCE Quality Assurance Program are correctly performed either by SCE or other organizations delegated the work.

The Nuclear Oversight Division has the authority and organizational freedom to:

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- o Identify quality problems.
- o Initiate, recommend, or provide solutions through designated channels.
- o Verify implementation of solutions.

Additional activities performed by Nuclear Oversight Division 12CN#36 personnel during the operations phase are listed on Table 17.2-3. 12CN#35

A Site Quality Assurance Manager and Quality Assurance 12CN#36 Supervisors are assigned to the operating nuclear 12CN#31 generating station. They are responsible for directing and managing the activities of quality assurance personnel performing the activities described on Table 17.2-3.

A Site QC Manager and QC Supervisors are responsible for directing the activities of site QC personnel. QC personnel provide site inspection and surveillance of safety related items and activities and non-safety related items and activities when requested by Station or Project Management.

The Manager, Safety Engineering, is responsible to the Manager of Nuclear Oversight for ensuring the Nuclear Safety Group (NSG) and Independent Safety Engineering Group (ISEG) Supervisors and assigned NSG and ISEG personnel provide independent review of activities as defined in the station technical specifications.

Quality Assurance and Quality Control Managers and Supervisors have the responsibility and authority, delineated in writing, to stop unsatisfactory work and to control further processing, delivery, and installation of nonconforming items.

The Manager of Nuclear Regulatory Affairs reports to the Vice President Nuclear Engineering, Safety and Licensing and provides licensing, corporate emergency planning, and corporate health physics and environmental support for nuclear generating facilities.



#### 17.2.2 <u>QUALITY ASSURANCE PROGRAM</u>

#### 17.2.2.1 <u>Scope</u>

This subsection describes the SCE Quality Assurance Program established and implemented for the operations phase of nuclear generating stations, including Preoperational and Initial Startup Testing, operation, maintenance, refueling, In-Service Inspection, and modification projects in compliance with Regulatory Guide 1.8, 1.28 and 1.33 (reference Table 17.2-1).

#### 17.2.2.2 Quality Assurance Program

The basic policies, goals, and objectives for quality assurance are that SCE personnel have full responsibility to assure that nuclear generating stations are designed, constructed, tested and operated in a manner to protect the health and safety of the public. In this regard, SCE has committed its Quality Assurance Program for the operational phase to be in compliance with the provisions of 10CFR50, Appendix B, and the regulatory guides and standards listed on Table 17.2-1.

The SCE Quality Assurance Program described herein is applied to all activities affecting the Safety-Related function of those structures, systems, and components which prevent or mitigate the consequences of postulated accidents that could cause undue risk to the health and safety of the public. A listing of items designated Safety-Related is included in the FSAR for the applicable nuclear generating station. The list for each station is maintained and revised in accordance with written procedures as necessary to reflect changes resulting from the finalization or modification of station design. The Quality Assurance Program also applies to activities governed by the Station Technical Specifications and other activities licensed by the NRC.

In addition, expendable or consumable items necessary for the functional performance of Safety-Related structures, systems and components are subjected to quality assurance requirements as specified in written procedures. These procedures include provisions for review and control in accordance with industry standards and specifications and the Safety-Related function of the expendable or consumable items.

This program includes Safety-Related activities associated with Preoperational and Initial Startup Testing and continues throughout the life of the nuclear generating station. The program is periodically reviewed by the Nuclear Oversight Division during the operational phase. Revisions are made in a controlled fashion, as necessary, to reflect changes in the program which may be required to improve its efficiency or increase its effectiveness. ,

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### 17.2.2.2 (continued)

Indoctrination and training programs are established within SCE by those organizations performing Quality-Affecting Activities. These programs are implemented by appropriate training plans and procedures which describe the scope and objectives. The Nuclear Oversight Division provides assistance in the development and implementation of these programs, as requested, and performs periodic audits to assure effective implementation.

The indoctrination and training programs are established to assure that personnel responsible for performing Quality-Affecting Activities are:

- o Instructed as to the purpose, scope, and method of implementation of the quality assurance manuals, procedures and instructions.
- Trained and qualified in the principles and techniques of the activity being performed.
- Retrained, reexamined, and/or recertified, as necessary, to maintain proficiency.

The indoctrination and training programs include, as appropriate, the following types of training:

- o Audit techniques.
- o Nondestructive testing.
- o Specialized technical subjects.
- o NRC regulations and guides, and codes and standards.
- Intra- and interdepartmental presentations regarding quality assurance activities and requirements.
- Presentations on the proper use of procedures and instructions affecting quality assurance activities.

A record of each training session is prepared and maintained which identifies the content, attendees, and the date training was conducted.

During the design and construction phase, project review meetings are held regularly to assess the design and construction status and provide an interface between the 12CN#35

# 17.2.7 CONTROL OF PURCHASED MATERIAL, EQUIPMENT AND SERVICES

# 17.2.7.1 <u>Scope</u>

This subsection describes the measures utilized by SCE to control the procurement of material, equipment, and services purchased directly or through contractors and subcontractors in compliance with applicable codes and standards.

# 17.2.7.2 Control of Purchased Material, Equipment and Services

Prior to award of purchase order or contract, suppliers to SCE 6 are subject to technical, and quality assurance evaluations by qualified SCE Engineering and Quality Assurance personnel. Quality Assurance evaluations of suppliers shall not apply to standard off-the-shelf items and bulk commodities where required 3 quality can adequately be determined by receipt inspection or post installation checkout or test. Quality Assurance evaluation may be accomplished by one or more of the following methods:

- Review of objective evidence establishing suppliers' capability to comply with the lOCFR50, Appendix B, criteria applicable to the type of material, equipment, or service to be procured.
- Review of available previous records and performance of suppliers that provided similar products and services of the type to be procured.
- Review of audit/evaluation records gerated by contractors, consultants, utilities/:icensees acting on behalf of SCE or organizations such as the Nuclear Utilities Procurement Issues Committee (NUPIC). Prior to any award based on qualification wsing this method(s), the audit/ evaluation records are reviewed by SCE Nuclear Oversight to Ensure applicability.
- Survey of suppliers' facilities and quality assurance programs to determine suppliers' capability to supply a product or service which meets the design, manufacturing, and quality requirements.

Results of these reviews and surveys are documented and forwarded to the Fuel and Material Management Department and to the CDM Center.

Surveillance of suppliers when required is performed during fabrication, inspection, testing, and shipment. This surveillance activity, as further described in Subsections 17.2.10 and 17.2.18, is planned and performed in accordance with written procedures to assure compliance to purchase order requirements. These procedures provide for the following: 12CN#31

12CN#35

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### <u>TABLE 17.2-3</u>

