

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

Change Notice Number: 25

Affected Amendment: 10

Affected Pages: 17.1-1, 17.1-2, 17.1-3, 17.1-5, 17.1-6, 17.1-49, 17.2-1,
17.2-2, 17.2-3, 17.2-7, 17.2-7a, 17.2-8, 17.2-63,
17.2-63a, (modifies CN 21)

Description of Change:

- (1) Changes in Senior Management reporting relationships.
- (2) Consolidation of Fuel Supply Department and Procurement and Material Management Department into Fuel and Material Management Department.
- (3) Changes in titles for Managers in Administrative Services and Procurement and Material Management.

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):

Organizational realignments have been made. These changes have no impact on the quality assurance program commitments previously accepted by the NRC.

Change ____ does X does not reduce commitments previously accepted by the NRC.

Approvals:


Manager of Quality Assurance


Vice President

Date Submitted to NRC: March 9, 1988

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17.1 QUALITY ASSURANCE DURING THE DESIGN AND CONSTRUCTION PHASE '7

17.1.1 ORGANIZATION

17.1.1.1 SCOPE

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 General Responsibilities

During the design and construction phase, the following departments within SCE are involved in quality-affecting activities: '6

<u>Departments</u>	<u>Responsibilities</u>	
Nuclear Engineering Safety and Licensing	Licensing, Nuclear Engineering, Nuclear Safety, Quality Assurance, Reporting of Defects and Noncompliance	'7CN#7
Nuclear Generation Site	Training Program for Operators, Operating Procedure Development, Handling, Storage and Warehousing of Material and Equipment.	'9CN#14
Fuel and Material Management	Procurement and Shipping of Nuclear Fuel, Material and Equipment	'10CN#25
Administrative Services	Records Management	'9CN#25 '10CN#25
System Planning and Research	Collection of Meteorological Data.	
Engineering & Construction	Design and Construction Management, and Pre- requisite Test Program Management, ECP Project Management	'9CN#15

17.1.1.2 (continued)

The ultimate responsibility for design, procurement, construction testing, quality assurance, fuel supply, and operations rests with the SCE Chairman of the Board. He assigns project responsibilities to the various SCE organizations involved in nuclear generating station development and operations.

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An Executive Vice President reports to the Chairman of the Board and is responsible for Nuclear Engineering, Safety and Licensing, Nuclear Generation Site, Engineering and Construction, and Fuel and Material Management.

'10CN#25

An Executive Vice President reports to the Chairman of the Board and is responsible for System Planning and Research and Administrative Services.

A Senior Vice President reports to the Executive Vice President and is responsible for Power Supply.

A Senior Vice President reports to the Executive Vice President and is responsible for Administrative Services.

The Vice President, Nuclear Engineering, Safety and Licensing, reporting to the Executive Vice President, has been delegated the responsibility for establishment and assurance of implementation of the SCE Quality Assurance Program in compliance with 10CFR50, Appendix B, and other applicable regulations and standards. He is authorized to request the cooperation of all officers and management personnel of this program.

'10CN#17

SCE corporate management is involved with quality assurance matters on a continuous basis by means of regular Officer's Council meetings. Quality Assurance Organization weekly progress reports are prepared for the Vice President, Nuclear Engineering, Safety and Licensing, and are used, as appropriate, for discussion items at these meetings. These reports usually contain significant progress items, corrective action recommendations, and unresolved items. In addition, a quarterly report of information suitable for assessment of the status and adequacy of the SCE Quality Assurance Program is submitted to senior management by the Manager of Quality Assurance.

'7CN#7

'9CN#15

17.1.1.3 Engineering and Construction Department

The Vice President, Engineering and Construction, has responsibility for the design and construction of nuclear generating stations. The Engineering and Construction Department is responsible for engineering, construction, and Construction and Prerequisite Test program management and project management. Engineering responsibilities include design and drafting services, and supporting the project in the various technical disciplines. Construction responsibilities include technical and administrative direction over project construction personnel, construction management, Construction and Prerequisite Testing, and handling, storage and warehousing of items.

'9CN#15

'10CN#19

17.1.1.4 Administrative Services Department

A Senior Vice President is in charge of Administrative Services. This Senior Vice President reports to the Executive Vice President.

'10CN#25

The Manager of Real Properties and Administration reports directly to the Senior Vice President and is responsible for the corporate records management program. Corporate Documentation Services operates the Corporate Documentation Management (CDM) center at the Corporate Offices which is responsible for processing, controlling, retrieving, distributing and storage of nuclear documentation.

'10CN#22

'10CN#25

17.1.1.5 Nuclear Engineering, Safety and Licensing Department

The Nuclear Engineering, Safety, and Licensing Department, under the Vice President, Nuclear Engineering, Safety, and Licensing has overall responsibility for nuclear engineering, safety, licensing and quality assurance activities associated with nuclear generating facilities. The Vice President, Nuclear Engineering, Safety, and Licensing reports directly to the Executive Vice President. Activities include conceptual engineering, nuclear systems analyses, engineering criteria and technical assistance pertaining to radiation protection programs, safety evaluations, emergency planning and regulatory interface with the Nuclear Regulatory Commission.

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17.1.1.6 (continued)

The Manager, Nuclear Safety reports directly to the Vice President Nuclear Engineering, Safety and Licensing. The Nuclear Safety Organization provides nuclear safety and nuclear radiological health support and corporate emergency planning for nuclear generating facilities. The staff requests and coordinates support from other organizations both in the company and outside consultants and engineering firms.

10CN#17

The Manager of Nuclear Engineering and Licensing, reports directly to the Vice President, Nuclear Engineering, Safety, and Licensing. The Nuclear Engineering and Licensing Organization provides nuclear engineering and licensing support for nuclear generating facilities. The staff requests and coordinates support from other organizations both in the company and outside consultants and engineering firms.

17.1.1.6 Nuclear Generation Site Department

The Nuclear Generation Site Department, under the Vice President, Nuclear Generation Site has the responsibility for operation of nuclear generating facilities.

The Station Manager, reports directly to the Vice President, Nuclear Generation Site. The Nuclear Generation Site Organizations manage the operation, maintenance and technical service activities at nuclear generating facilities. They also are responsible for providing trained station operators; operating procedures and instructions; and handling, storage and warehousing of items; and storage and retention of quality assurance records and document/drawing control at the nuclear generation site.

7CN#7

9CN#14

10CN#22

17.1.1.7 Engineering and Construction Project (ECP) Management

Project Managers are assigned for each Engineering and Construction Project (ECP) from the Engineering and Construction Department. Project Managers are responsible for the technical, schedule, economic and quality assurance aspects of nuclear projects. Project direction is maintained through key project personnel who support the Project Manager. Administrative Authority and Technical Direction are provided from the specific engineering, construction or procurement organization from which these people are assigned.

10CN#17

7CN#7

17.1.1.8 Fuel and Material Management Department

The Vice President, Fuel and Material Management, is responsible for procurement and shipping of nuclear fuel, material and equipment for nuclear generating stations.

10CN#25

The Manager of Procurement and Material Management, reports to the Vice President and is responsible for procurement of

17.1.1.8 (continued)

items and services (excluding nuclear fuel), material shipping, and for preparation; negotiation and administration of procurement contracts.

10CN#25

The Manager of Nuclear Fuel Supply reports to the Vice President and is responsible for nuclear fuel procurement and shipment.

17.1.1.9 System Planning and Research Department

The System Planning and Research Department, under the direction of the Vice President, System Planning and Research, is responsible for collection of meteorological data in support of nuclear power plant activities.

9CN#15

17.1.1.10 Delegated Quality Assurance Work

7CN#7

SCE retains responsibility for the Quality Assurance Program describe herein but may delegate quality assurance work to other organizations. Other organizations which may be delegated the work of establishing and executing portions of the Quality Assurance Program during the design and construction phase are as follows:

Architect-Engineer (A-E).

Nuclear Steam Supply System (NSSS) Supplier.

Other SCE Contractors and Consultants.

The quality assurance programs of these organizations and the scope of delegation are as described in the applicable contract for the work performed. A typical interface organizational relationship between SCE and other organizations delegated quality assurance work is as shown on Figure 17.1-2.

17.1.1.11 Interfaces for Delegated Quality Assurance Work

7CN#7

The SCE Manager of Quality Assurance, is responsible to communicate SCE quality assurance requirements directly with management of other organizations delegated the work of establishing and executing portions of the Quality Assurance Program. Compliance with SCE quality requirements and regulatory requirements is verified by means of review and approval of these organizations' quality assurance programs as described in Subsection 17.1.2 and by means of audits as described in Subsection 17.1.18.

9CN#13

Management of other organizations delegated quality assurance work is required to implement a reporting system concerning the delegated quality assurance work they are performing and to regularly review the status and effectiveness of that part of the program they are executing. Further, management of these organizations is required to submit to SCE management reports concerning correction of quality problems identified during SCE surveillance of delegated work.

TABLE 17.1-2

SOUTHERN CALIFORNIA EDISON COMPANY
QUALITY ASSURANCE PROGRAM IMPLEMENTING PROCEDURES

		10CFR50 Appendix B Criteria																			
Implementing Procedure Documents		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Summary	
<u>Quality Assurance Organization</u>																					
Quality Assurance Manual (applicable project)		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Quality Assurance manuals describe the SCE Quality Assurance Program policies for all 10CFR50 Appendix B, criteria and provide appropriate general implementation procedures. The Reference Procedures Manual provides specific implementation procedures required by the Quality Assurance Organization to implement 10CFR50, Appendix B, criteria.	' ' '3
Quality Assurance Reference Procedures Manual		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
<u>Engineering & Construction Department</u>																					
Quality Assurance Reference Procedures Manual (These procedures are also used by Nuclear Engineering, Safety and Licensing Organizations)		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Emphasis of Engineering & Construction Department procedures is on preparation and control of drawings, specifications, and procedures, and procurement activities	' ' '7CN7 '
<u>Fuel and Material Management</u>																					
Quality Assurance Reference Procedures Manual		x	x		x	x	x	x								x	x	x		Emphasis of Procurement and Material Management Procedures is on control of purchase orders, contracts and vendor proposals and documentation. Emphasis of Fuel Supply procedures is on preparation and control of procurement specifications and contracts for nuclear fuel.	' ' ' ' '10CN#25 ' ' '

17.2 QUALITY ASSURANCE DURING THE OPERATIONS PHASE

17.2.1 ORGANIZATION

17.2.1.1 SCOPE

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:

<u>Departments</u>	<u>Responsibilities</u>	
Nuclear Engineering, Safety and Licensing	Licensing, Nuclear Engineering, Nuclear Safety, Radiological Environmental Monitoring, Corporate Emergency Planning, Quality Assurance, Reporting of Defects and Noncompliances	'6 ' '7 ' ' '
Nuclear Generation Site	Station Operation, Maintenance, Refueling, Testing, In-Service Inspection, Station Safety, Handling, Storage and Warehousing of Material and Equipment	' '9CN#14 ' ' '
Fuel and Material Management	Procurement and Shipping of Nuclear Fuel, Material and Equipment, Spent Fuel Shipping Services, Special Nuclear Material Accountability	' '10CN#25 ' ' '
Administrative Services	Records Management	' '
Engineering & Construction	Design and Construction, Pre-operational and Start-up Testing, ECP Project Management	' '9CN#15 '

17.2.1.2 (continued)

System Planning and Research	Collection of Meteorological Data and Environmental Monitoring Support	'9CN#15
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Power Supply	Maintenance and Technical Support and Equipment Repair and Calibration	'7CN#7
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The SCE organizational structure of departments involved with implementing the SCE Quality Assurance Program during the operational phase as well as departmental interfaces is presented on Figure 17.2.1.

In addition to the departmental responsibilities listed, Technical Specifications for operating nuclear generating stations describe the Safety-Related functions of the On-Site Review Committee (OSRC), Nuclear Safety Group (NSG), and Independent Safety Engineering Group (ISEG), a summary of these responsibilities is as follows:

<u>Committee/Board/Group</u>	<u>Responsibility</u>	
OSRC	Advise the Station Manager on all matters related to safety.	'4
NSG	Provide independent review and audit of designated activities in the area of safety.	'5
ISEG	Provide onsite independent review of station activities and feedback of operating experience.	'4 '5

The organizational structure, administrative requirements, responsibilities and authorities specific to each committee/group is described in the Technical Specification for the applicable station and in internal procedures.

The ultimate responsibility for operating, maintaining, repairing, inspecting, testing, refueling, and modifying operational nuclear generating stations rests with the Chairman of the Board. He assigns responsibilities to the various SCE organizations involved in nuclear generating station operations.

An Executive Vice President reports to the Chairman of the Board and is responsible for Nuclear Engineering, Safety and Licensing, Nuclear Generation Site, Engineering and Construction, Power Supply, and Fuel and Material Management.

17.2.1.1 (continued)

An Executive Vice President reports to the Chairman of the Board and is responsible for System Planning and Research and Administrative Services.

A Senior Vice President reports to the Executive Vice President and is responsible for Power Supply. A Senior Vice President reports to the Executive Vice President and is responsible for Procurement and Material Management and Administrative Services.

The Vice President, Nuclear Engineering, Safety and Licensing reporting to the Executive Vice President, has been delegated the responsibility for establishment and assurance of implementation of the SCE Quality Assurance Program in compliance with 10CFR50, Appendix B. and other applicable regulations and standards. He is authorized to request the cooperation of all officers and management personnel in support of this program.

SCE corporate management is involved with quality assurance matters on continuing basis by means of regular Officer Council meetings. Quality Assurance Organization weekly progress reports are prepared for the Vice President, Nuclear Engineering, Safety and Licensing, and are used, as appropriate, for discussion items at these meetings. These reports usually contain significant progress items, corrective action recommendations, and unresolved items. In addition, a quarterly report of information suitable for assessment of the status and adequacy of the SCE Quality Assurance Program is submitted to senior management by the Manager of Quality Assurance.

The Nuclear Control Boards (NCB), which includes corporate officers and upper management personnel, are additional means by which SCE corporate management is involved with quality assurance matters. As a member of the NCBs, the Vice President, Nuclear Engineering, Safety and Licensing, apprises these boards of significant quality assurance matters related to station operations and modifications.

17.2.1.3 Nuclear Generation Site Department

The Nuclear Generation Site Department, under the Vice President, Nuclear Generation Site, is responsible for operation of nuclear powered generating facilities.

The Vice President, Nuclear Generation Site is responsible for the safe and reliable operation, maintenance, testing, refueling, and In-service Inspection of his assigned station.

The Vice President, Nuclear Generation Site is responsible for the routine administration and implementation of the Quality Assurance Program at the station, including the following station organization functions, where appropriate:

17.2.1.6 Power Supply Department

The Power Supply Department, under the direction of a Senior Vice President is responsible for providing maintenance services and technical assistance mainly during periods of refueling operations and equipment repair and calibration when requested by the Project Manager or Station Manager.

10CN#17

The Division Chemical Staff assists generating stations with water chemistry control.

7CN#7

The Division Maintenance Organization, provides supervision and manpower capability for major overhauls and equipment repair.

The Shop Services and Instrumentation Division, provides equipment repair and calibration for generating stations when requested by the Station Manager or Project Manager.

9CN#13

17.2.1.7 Fuel and Material Department

The Fuel and Material Management Department, under the direction of the Vice President, Fuel and Material Management, is responsible for procurement of nuclear fuel, materials and equipment, spent fuel shipping services and for special nuclear material accountability for nuclear generating stations.

10CN#25

The Manager of Procurement and Material Management reports to the Vice President, and is responsible for procurement of items and services (excluding nuclear fuel), material shipping, and for preparation, negotiations, and administration of procurement contracts.

10CN#25

The Manager of Nuclear Fuel Supply reports to the Vice President and is responsible for procurement of nuclear fuel, spent fuel shipping services and for nuclear material accountability.

17.2.1.8 Engineering and Construction Department

7CN#7

The Engineering and Construction Department under the direction of the Vice President, Engineering and Construction, is responsible for engineering and initial plant construction including Preoperational and Start-up testing as well as engineering, construction and start-up testing associated with ECP development. Engineering responsibilities include design and drafting services, and supporting the projects in the various technical disciplines. Construction responsibilities include technical and administrative direction over project construction personnel and construction management, and Preoperational and Start-up testing.

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17.2.1.9 Administrative Services Department

A Senior Vice President is in charge of Administrative Services. The Senior Vice President reports to the Executive Vice President.

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17.2.1.9 (Continued)

The Manager of Real Properties and Administration reports directly to the Senior Vice President and is responsible for the corporate records management program. Corporate Documentation Services operates the Corporate Documentation Management (CDM) Center at the Corporate offices which is responsible for processing, controlling, retrieving, distributing and storage of nuclear documentation.

'10CN#25

'10CN#22

17.2.1.10 System Planning and Research Department

The System Planning and Research Department, under the direction of the Vice President, System Planning and Research, is responsible for collection of meteorological data, environmental monitoring support and environmental reviews in support of nuclear power plant activities.

'9CN#15

17.2.1.11: Delegated Quality Assurance Work

'7CN#7

SCE retains responsibility for the Quality Assurance Program described herein but may delegate quality assurance work to other organizations. Other organizations which may be delegated the work of establishing and executing portions of the Quality Assurance Program during the operational phase are as follows:

- o Architect-Engineer (A-E,s).
- o Nuclear Steam Supply System (NSSS) Supplier.
- o Other suppliers contractors including consultants to SCE.

'9CN#13

The quality assurance programs of these organizations and the scope of delegated work is as described in the applicable contract for the work performed. A typical interface organizational relationship between SCE and other organizations delegated quality assurance work is as shown on Figure 17.2-2.

17.2.1.12 Interface for Delegated Quality Assurance Work

'7CN#7

The SCE Manager of Quality Assurance, is responsible to communicate SCE quality assurance requirements directly with quality assurance managers of other organizations delegated the work of establishing and executing portions of the Quality Assurance Program. Compliance with SCE quality requirements and regulatory requirements is verified by means of review and approval of these organizations' quality assurance programs as described in Subsection 17.2.2 and by means of audits as described in Subsection 17.2.18.

'9CN#13

Management of other organizations delegated quality assurance work is required to implement a reporting system concerning the delegated quality assurance work they are performing and to regularly review the status and effectiveness of that part of the program they are executing. Further, management of these organizations is required to submit to SCE management reports concerning correction of quality problems identified during SCE surveillance of delegated work.

TABLE 17.2-2

SOUTHERN CALIFORNIA EDISON COMPANY
QUALITY ASSURANCE PROGRAM IMPLEMENTING PROCEDURES

Implementing Procedure Documents	10CFR50 Appendix B Criteria																		Summary
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
<u>Quality Assurance Organization</u>																			
Quality Assurance Manual (applicable project)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Quality Assurance manuals describe the SCE Quality Assurance Program policies for all 10CFR50 Appendix B, criteria and provide appropriate general implementation procedures. The Reference Procedures Manual provides specific implementation procedures required by the Quality Assurance Organization to implement 10CFR50, Appendix B, criteria.
Quality Assurance Reference Procedures Manual	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
<u>Nuclear Generation Site Department</u>																			
Station Orders, procedures and operating instruction	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Station orders, procedures and operating instructions contain implementation procedures for 10CFR50, Appendix B, criteria.
<u>Engineering & Construction Department</u>																			
Quality Assurance Reference Procedures Manual (These procedures are also used by Nuclear Engineering, Safety and Licensing Organization)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Emphasis of Engineering & Construction Department procedures is on preparation and control of drawings, specifications, and procedures, and procurement activities
<u>Fuel and Material Management</u>																			
Quality Assurance Reference Procedures Manual	x	x		x	x	x	x								x	x	x		Emphasis of Procurement and Material Management procedures is on control of purchase orders, contracts and vendor proposals and documentation. Emphasis of Fuel Supply procedures is on preparation and control of procurement specifications and contracts for nuclear fuel and spent fuel shipping services.

TABLE 17.2-2

SOUTHERN CALIFORNIA EDISON COMPANY
QUALITY ASSURANCE PROGRAM IMPLEMENTING PROCEDURES

Implementing Procedure Documents	IOCFR50 Appendix B Criteria																		Summary
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
<u>Power Supply Department</u>																			
Quality Assurance Reference Procedures Manual	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Emphasis on metrology and repair of equipment.
<u>System Planning and Research Department</u>																			
Quality Assurance Reference Procedures Manual	x	x																	Emphasis on collection of meteorological data and environmental monitoring.
<u>Corporate Documents Service</u>																			
Quality Assurance Reference Procedures Manual	x	x																	Emphasis of Corporate Documentation Services procedures is on processing, control, retention and retrieval of documents.

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