Southern California Edison Company

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October 9, 1981

J. M. CURRAN MANAGER, QUALITY ASSURANCE

> Mr. James Conway Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, D. C. 20555



Dear Mr. Conway:

Subject:

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ect: Topical Report - Quality Assurance Program SCE-1-A Amendment 4 Southern California Edison Company

Reference: Telecon of July 22, 1981, between yourself and Mr. R. E. Hawes, SCE.

As requested in the subject telecon, the changes and corrections to the subject Topical Report have been made. Enclosed are two (2) copies of each page to which such changes and corrections have been made.

Actions have been initiated within the company to comply with the following Regulatory Guides referenced in Table 17.2-1: 1.38 Revision 2 (5/77), 1.58 Revision 1 (9/80), 1.123 Revision 1 (7/77) and 1.146 Revision 0 (8/80).

If you have any questions, please let me know.

Sincerely,). M. Corron

REHawes:cs Enclosures

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LIST OF EFFECTIVE PAGES

Page No.	Amendment No.	Page No.	Amendment No.
Title Page	4	17.1-31	Original
17-i	2	17.1-32	3
17-ii	1	17.1-33	Original
17-iii	Original	17.1-34	Original
17-iv	2	17.1-35	3
17-v	4	17.1-36	4
17-vi	4	17.1-37	2
17-vii	4	17.1-38	4
17.0-1		17.1-39	4
17.0-2	2 3 3 1 1	17.1-39a	4
17.0-3	3	17.1-40	Original
17.0-4	ĩ	17.1-41	3 (8/81)
17.0-5	ī	17.1-42	3
17.1-1	4	17.1-43	3
17.1-1a	3	17.1-44	Original
17.1-2	4 (8/81)	17.1-45	2
17.1-3	4	17.1-45a	2
17.1-3a	4	17.1-46	ĩ
17.1-4	3	17.1-47	ī
17.1-5	4	17.1-48	ĩ
17.1-6	4 2 4 3	17.1-49	4
17.1-7	4	17.1-50	4
17.1-8	3	17.1-51	4
17.1-9	ĩ	17.2-1	4
17.1-10	1 3	17.2-2	4
17.1-11		17.2-3	4
17.1-12	ĩ	17.2-4	4
17.1-13	3	17.2-5	4
17.1-14	2	17.2-6	4
17.1-15	3 1 3 2 3 3 3 2	17.2-7	4
17.1-16	3	17.2-7a	
17.1-17	3	17.2-8	4
17.1-18	2	17.2-9	3
17.1-19	3	17.2-10	4
17.1-20		17.2-11	4
17.1-21	3 4	17.2-12	i
17.1-22	3	17.2-13	Â
17.1-23	ĩ	17.2-13a	1 (8/81)
17.1-24	2	17.2-14	4
17.1-25	Original	17.2-15	2
17.1-26	3	17.2-16	4
17.1-27	Original	17.2-16a	4
17.1-28	Original	17.2-17	4
17.1-29	Original	17.2-17a	2 4 4 3 3 2 4
17.1-30	Original	17.2-18	3
2702 50	or equival	17.2-19	2
		17.2-20	4
		17.2-21	4
		17.2-22	4
		1/12 22	

8/81

17-vi Amendment 4

List of Effective Pages (continued)

Page No.	Amendment No.	
17.2-23	4	
17.2-24	3	
17.2-25		
17.2-26	3 1	
17.2-27	4	
17.2-28	Original	
17.2-29	3	
17.2-30	4	
17.2-31	4	
17.2-32	4	
17.2-33	Original	
17.2-34	3	
17.2-35	4	
17.2-36	4	
17.2-37	4	
17.2-38	Original	
17.2-39	Original	
17.2-40	3	
17.2-41	4	
17.2-42	Original	
17.~43	4	
17.2-44	4	
17.2-45	4	
17.2-46	4	
17.2-47	Original	
17.2-48	Original	
17.2-49	3 4 3 2 1	
17.2-50	3	
17.2-51	4	
17.2-52	3	
17.2-53	2	
17.2-54		
17.2-55	4 (8/81)	
17.2-56	4 (8/81)	
17.2-57	4	
17.2-58	4	
17.2-59	4	
17.A-1	1	
17.A-2	1	
17.A 3	1	
17.3-4	1	
17.A-5	1	
17.A-6	4 1 1 1 2 2	
17.A-7	2	

8/81

17-vii

Amendment 4

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.

The President is responsible for Administration.

The Senior Vice President reports to the Chairman of the Board and is responsible for Nuclear Engineering and Operations, Engineering and Construction, and Advanced Engineering.

The Vice President, Advanced Engineering, reporting to the Senior Vice President, has been delegated the responsibility for establishing and executing 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.

SCE corporate management is involved with quality assurance matters on a continuous basis by means of regular Officers' Council meetings. Quality Assurance Organization weekly progress reports are prepared for the Vice President, Advanced Engineering, 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, Quality Assurance.

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. 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, and Construction and Prerequisite Testing.

8/81

17.1-2

Amendment 4

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17.2.2.2.1 Engineering Construction Projects (ECP's)

Quality-related work delegated to other organizations (A-E or contractors to SCE) for ECP's must comply with applicable provisions of 10CFR50, Appendix B. Additionally, these programs must comply with the Regulatory Guide and ANSI standards listed in Table 17.2-1 or acceptable alternatives must be described. These quality assurance programs must be reviewed and approved by the SCE Quality Assurance Organization. Regular planned audits of these quality assurance programs are conducted by the SCE Quality Assurance Organization as well as inspection surveillance of work performed at the station to assure continued compliance with applicable regulatory requirements.

17.1.16.2 (continued)

retained on file in the EDM Center. The Vice President, Advanced Engineering, issues directives for corrective action resulting from trending studies, as necessary, and assures appropriate management involvement in correcting significant conditions adverse to quality.

A-E's, NSSS Suppliers, and other suppliers are required by contract or procurement specification to implement a corrective action system equivalent to that described herein for their cope of work, including appropriate management involvement in the review and assessment of significant conditions adverse to quality. 3

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.

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17.2.1.2 General Responsibilities

During the operational phase, the following departments within SCE are involved in Safety-Related activities requiring guality assurance:

Departments	Responsibilities	
Nuclear Engineering & Operations	Licensing and Nuclear Engineering, Engineering Construction Project (ECP) Management, Station Operation, Maintenance, Refueling, Testing, In-Service Inspection and Station Safety	3
Material Services	Procurement, Shipping and Handling (excluding Nuclear Fuel)	
Engineering & Construction	Design and Construction Management, Preoperational and Startup Test Program Management	3
Fuel Supply	Procurement of Nuclear Fuel	
Administrative Services	Record Management	13
Advanced Engineering	Quality Assurance, Collection of Meteorological Data, Reporting of Defects and Noncompliances	2
Power Supply	Maintenance and Technical Support	3
implementing the SCE Qua	tructure of departments involved with ality Assurance Program during the 1 as departmental interfaces is 2.1.	

4/81 17.2-1 Amendment 4

SCE Topical Report SCE-1A

Table 1/.2-1 (continued)

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Quide, Requirement or Standard	Compliance Status	Remarks	
Regulatory Guide 1.38 - Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage and Handling of Itams for Water-Cooled Nuclear Power Plants (Revision 2, 5/77)	Complies	Endorses ANSI N45.2.2	1-421.13 4
Regulatory Guide 1.39 - Housekeeping Requirements for Water-Cooled Nuclear Power Plants (Revision 2, 9/77)	Complies	Endorses ANSI N45.2.3	1-421.13
Regulatory Guide 1.54 - Quality Assurance Requirements for Protective Coatings Applied to Water - Cooled Nuclear Power Plants (6/73)	Complies	Endorses ANSI N101.4	
Regulatory Guide 1.58 - Qualification of Nuclear Power Plant Inspection, Examination, and Testing Personnel (Revision 1, 9/80)	Complies	Endorses ANSI N45.2.6	4
Regulatory Guide 1.64 - Quality Assurance Requirements for the Design of Nuclear Power Plants (Revision 2, 6/76)	Complies	Endorses ANSI N45.2.11	1-421.13
Regulatory Guide 1.70 - Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants (Rev. 2, 9/75)	Complies		
Regulatory Quide 1.74 - Quality Assurance Terms and Definitions (2/74)	Complies	Endorses ANSI N45.2.10	
Regulatory Guide 1.88 - Collection, Storage and Maintenance of Nuclear Power Plant Records (Revision 2, 10/76)	Complies	Endorses ANSI N45.2.9	1-421.13

17.2-55

Amendment 4

SCE Topical Report SCE-1A

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Table 17.2-1 (continued)

Quide, Requirement or Standard	Compliance Status	Remarks
Regulatory Quide 1.94 - Quality Assurance Requirement for Installation, Inspection, and Testing of Structural Concrete and Structural Steel During the Construction Phase of Nuclear Power Plants (Revision 1, 4/76)	Complies	Endorses ANSI N45.2.5
Regulatory Guide 1.116 - Quality Assurance Requirements for Installation, Inspection and Testing of Mechanical Equipment and Systems (6/76)	Complies	Endorses ANSI N45.2.8
Regulatory Guide 1.123 - Quality Assurance Requirements for Control of Procurement of Items and Services for Nuclear Power Plants (Revision 1, 7/77)	Complies	Endorses ANSI N45.2.13 4
Regulatory Guide 1.144 - Auditing of Quality Assurance Programs for Nuclear *Power Plants (Revision 1, 9/80)	Complies	Endorses ANSI N45.2.12 4
Regulatory Guide 1.146 - Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants (8/80)	Complies	Endorses ANSI N45.2.23 4

8/81

Amendment 4