



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION V

1450 MARIA LANE, SUITE 260
WALNUT CREEK, CALIFORNIA 94596

January 4, 1982

[Handwritten initials]

MEMORANDUM FOR: Darrell G. Eisenhut, Director
Division of Licensing, NRR

FROM: R. H. Engelken, Regional Administrator, Region V

SUBJECT: SOUTHERN CALIFORNIA EDISON, SAN ONOFRE UNIT 2,
DOCKET NO. 50-361

In accordance with Inspection Procedure No. 94300B, the attached enclosures list the remaining open items that require resolution before a finding of readiness for low power operation can be endorsed by Region V.

[Handwritten signature of R. H. Engelken]
R. H. Engelken
Regional Administrator

- Enclosures:
- Appendix A - Outstanding Items Including Enforcement and Unresolved Items
 - Appendix B - Preoperational Testing Status
 - Appendix C - Construction Status
 - Appendix D - Status of Inspections Required by MC 2512, MC 2513, MC 2514, MC 2593, MC 2594 (Summary)

- cc: B. K. Grimes, Director, DEP, IE
L. J. Cobb, Director, FF&MS, IE
H. Rood, LB 3, NRR
J. Taylor, Director, DRP, IE
E. Jordan, Director, DE&QA, IE
F. Miraglia, LB 3, NRR

8408130220 820104
PDR ADDCK 05000361
P PDR

Dist PER. H. Rood

H005
11

Appendix A

Outstanding Items Including Enforcement and Unresolved Items

I. Operations

A. Enforcement Items

None

B. Unresolved Items

None

C. Follow-up Items

1. Review applicant's administrative controls and implementing procedures for Technical Specification required surveillances.

II. Construction

A. Enforcement Items

1. Inadequate cable separation in cabinets.
2. Removal of installed equipment without proper documentation.

B. Unresolved Items

None

C. Follow-up Items

1. IE Bulletins

None

2. 50.55(e) Items

- a) HFA relays manufactured by GE and supplied by ITE have cracked coil spool insulators which might result in failure of relay to operate properly.
- b) Level alarm switches inoperative due to corrosion.

III. Security

Outstanding Enforcement, Unresolved, or Follow-up Items

None

IV. Radiation Protection

Outstanding Follow-up Items

- A. Confirm appropriate design, installation, calibration (initial and secondary) and preoperational testing of Area Radiation Monitors (ARM's)/Emergency Radiation Monitors (ERM's), and process and effluent radiation monitoring systems.
- B. Confirm corrective actions taken as a result of IEC 81-09. (Containment Effluent Water that Bypasses Radioactivity Monitor).
- C. Confirm corrective actions taken as a result of IEB 80-10 (Contamination of Nonradioactive Systems).
- D. Confirm corrective actions taken as a result of IEB 79-18. (Evacuation Alarm Audibility Problems).
- E. Verify initial calibration of liquid effluent tank volumes and flow measuring devices.
- F. Evaluate the applicant's Unit 2 Radiochemistry facility capabilities for measuring radioactivity in various types of samples.
- G. Examine the quality control program for analytical measurements.
- H. Review liquid and gaseous discharge (release) procedures and capabilities for performing dose assessments associated with releases, and as will be required by the proposed T.S. per Offsite Dose Calculation Manual.

- I. Confirm the breathing air supply system established for the respiratory protection program meets the criteria of NUREG 0041.
- J. Evaluate the operational Environmental Protection Program established by the applicant.
- K. Examine status of the following TMI items:
 - II.B.3 - Postaccident Sampling Capability
 - II.F.1 - Additional Accident Monitoring Instrumentation
 - III.D.3.3 - Improved Inplant Iodine Instrumentation Under Accident Conditions

Appendix B

PREOPERATIONAL TESTING STATUS

Test Type	No.	Percent Complete			Test Completion Due
		Procedures Approved by TWG	Tests Completed	Results Approved by TWG	
Preoperational/ Acceptance Tests	103	100%	99%	95%	OL Issuance
Fuel Load and Post Core Loading Hot Functional Tests	11	100%	0%	0%	Before Low Power Physics Tests
Initial Criticality and Low Power Physics Tests	7	100%	0%	0%	Before Power Ascension Tests
Power Ascension Tests	46	94%	0%	0%	Before Full Power

Appendix C

Construction Status

Construction is greater than 99% complete. General Atomic Company (GA) is conducting an independent verification of the San Onofre 2 seismic design. The GA interim report is scheduled to be issued January 8, 1982. A review and evaluation of the GA effort will be performed the week of January 4, 1982 by both Region V and NRR.

Certain systems related to site security are installed but not yet fully tested. (See Appendix D, paragraph II. C).

Appendix D

Inspection Program Status

I. Construction Inspection Program (MC 2512)

Complete

II. Preoperational Inspection Program (MC 2513 & 2593)

A. Operations

Complete

B. Construction

N/A

C. Security

The applicant's approved physical security plan for Unit 2 serves as a basis for the security pre-operational inspection. A portion of this inspection has begun. However, the applicant has submitted Revision 2 (December 1981) and is planning a Revision 3 (January 1982) to the security plan necessitating a repeat of some previously completed inspections. The applicant is experiencing problems with the onsite security computer and the security communications system. The applicant is in the process of resolving these problems and expects that the security preoperational inspection can be resumed in January, 1982. The physical security inspection program is currently about 60% complete.

D. Radiation Protection

1. Review of on-site exercise before exceeding 5% power
2. Review of completion of Initial/Retraining of Health Physics Staff for Unit 2. Also radiation safety/emergency planning training of other Unit 2 personnel (except NRC licensed individuals).

3. Complete the review of Health Physics (radiological protection) procedures.
4. Complete the review of Health Physics portable instrumentation and equipment, and laboratory instrumentation and related calibrations.

III. Startup Program (MC 2514)

A. Operations

1. QA Procedures for Operations: This review is approximately 85% complete. Still remaining is completion of review in the areas of Tests and Experiments and Surveillance Testing.
2. Post-TMI Requirements: Except as indicated below, all items for which IE was assigned review responsibility have been completed. The remaining areas have all been partially inspected and found incomplete. All areas require varying degrees of followup. The following is the status of these incomplete items:

<u>TMI Item #</u>		<u>Requirement Due</u>
I.A.1.1	Shift Technical Advisor	fuel load
	This item is complete with the exception of qualification of the Unit 2 STAs.	
I.A.2.3	Admin. of Training Programs for licensed operators	2 months prior to OL issuance
	The licensee is revising program to fully incorporate the requirements of this item.	

<u>TMI Item #</u>		<u>Requirement Due</u>
I.C.6	Verification of Correct Performance of Operating Activities	fuel load
	A partial review of this item indicates the applicant conforms to requirements of this item.	
I.D.1	Control Room Design	OL
	Several items still need to be completed.	
II.D.3	Code Safety Valve Position Indication	fuel load
	Awaiting parts	
II.F.1	Additional Accident Monitoring Instrumentation	fuel load
	Containment water level indication system incomplete - awaiting parts	
II.F.2	Inadequate Core Cooling Instruments	fuel load
	Incomplete, requires some rewiring and replacement of calculational unit	
II.E.4.2	Containment Isolation Dependability	fuel load
	Currently being inspected	

B. Construction, Security and Radiation Protection

N/A