

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-361/82-11 (RS)

Docket No. 50-361 License No. NPF-10 Safeguards Group _____

Licensee: Southern California Edison Company
P. O. Box 800
2244 Walnut Grove Avenue
Rosemead, California 91770

Facility Name: San Onofre Unit 2

Inspection at: San Onofre Site, San Diego County, California

Inspection conducted: March 1-5, 1982

Inspectors: M. Cillis 3/12/82
M. Cillis, Radiation Specialist Date Signed

G. Yuhas 3/17/82
G. Yuhas, Radiation Specialist Date Signed

Approved by: R. F. Fisher 3/18/82
F. A. Wenslawski, Chief, Reactor Radiation Protection Section Date Signed

Approved by: H. E. Book 3/18/82
H. E. Book, Chief Date Signed
Radiological Safety Branch

Date Signed

Summary:

Inspection on March 1-5, 1982 (50-361/82-11)

Areas Inspected: Routine unannounced inspection of licensee action on previous inspection findings, procedures and training associated with process and effluent monitoring systems, radiological effluent monitoring program, respiratory protection program, actions on IE Bulletins and a tour of the licensee's facility. The inspection involved 66 hours of on site time by two regionally based inspectors.

Results: Of the areas inspected, no items of noncompliance or deviations were identified.

RV Form 219 (2)

DETAILS

1. Persons Contacted

Southern California Edison Company

- *H. B. Ray, Station Manager
- *J. G. Haynes, Manager, Nuclear Operations
- *W. C. Marsh, Health Physics Manager (Acting)
- *J. M. Curran, Manager, Quality Assurance
- *W. C. Moody, Deputy Station Manager
- *J. P. Albers, Effluent Engineer
- R. Rosenblum, Supervisor, Construction & T/S Engineering
- *R. Grey, Health Physics Supervisor, Unit 2/3
- *F. Briggs, Compliance Engineer
- *P. A. Croy, Manager, Compliance
- *P. R. King, Quality Assurance Supervisor, Operations
- *T. Garvens, Lead Q. A. Engineer
- G. Holloway, Supervisor, Startup Engineer
- T. Elkins, Startup Engineer
- K. Johnson, Startup Engineer
- K. de Lancy, Training Instructor
- S. Folsom, Health Physics Engineer
- G. Noel, Technical Training Administrator
- D. Mc Closky, Supervisor of Emergency Preparedness

*Denotes those present at the exit interview on March 5, 1982.

In addition to the individuals noted above, the inspectors met with and interviewed other members of the licensee's staff.

2. Licensee Action on Previous Inspection Findings

- a) (Closed) Item 81-16-03: The inspector examined the licensee's actions resulting from concerns identified in Section 6 and 12.d of Region V IE Inspection Report 50-361/81-35. The inspection report identifies the need for developing instructions and procedures for relating process and effluent monitoring meter readings of counts per minute (cpm) to release rates of microcuries per unit volume ($\mu\text{Ci/cc}$). The conversion values of cpm to $\mu\text{Ci/cc}$ are now contained in the Offsite Dose Calculation Manual (ODCM) for Unit 2. This matter is considered closed.

- b) (Closed): The inspector examined the status of an SCE letter, dated October 23, 1981 reported to NRC Region V office in accordance with 10 CFR 50.55(e). The letter identified that wire connectors used on Photohelic Gas Flow Gauges for Process and Radiation Monitors were improperly sized for the wire used, causing a possibility of failure due to electrical short circuits. The examination revealed that properly sized wire connectors were replaced in all of Unit 2's radiation monitoring devices and the licensee has initiated NRCAIR-066 dated December 15, 1981 to track the inspection and repair of Unit 3 wire connectors. This matter is considered closed for Unit 2.
- c) (Closed): The inspector examined the licensee's actions in regard to concerns identified in Section 3.g of IE Inspection Report 50-361/81-27. The inspection report disclosed that the volume of gaseous waste was not addressed in operating instructions S023-8-15. The inspection which included a review of operating instruction S023-8-15 revealed the instructions were revised to include the volumes of gaseous waste. This matter is considered closed.
- d) (Closed): The inspector examined the licensee's actions in regard to the need for determining Liquid Radwaste Tank volumes. This concern was identified during the preoperational inspection phase. The examination revealed that the actual as-built tank volumes were determined and verified from administrative records. The obtained values were added to station radioactive effluent monitoring program procedures for purposes of determining liquid release rate calculations. This matter is considered closed.
- e) (Closed): The inspector examined the licensee's actions in regard to an erroneous Dose Equivalent Iodine-131 limit specified in Chemical Procedure S023-III-1.6, Rev. 2. This concern is discussed in Section 3 of Region V IE Inspection Report 50-361/82-09. The examination revealed that Revision 4 of S023-III-1.6 which was in effect at the time of this and during the inspection period of Inspection Report 50-361/82-09 listed the correct value for Dose Equivalent Iodine-131. The inspector emphasized during the exit interview the need and importance for the licensee to ensure that station personnel are issued the latest copies of procedures. This matter is considered closed.

- f) (Closed): The inspector examined the status of respiratory qualifications of Unit 2 emergency response personnel. Concerns in regard to this matter are discussed in Region V Emergency Preparedness Appraisal Inspection Report 50-361/81-31. Licensee committed goals for respiratory qualification are discussed in Region V IE Inspection Report 50-361/82-07. Personnel respirator qualification records and an SCE letter dated February 16, 1982 submitted to Region V pursuant to 10 CFR 20.103(e) were reviewed during the inspection. The examination revealed the licensee had achieved the intent of the committed goals for respiratory qualification of emergency response personnel. This matter is considered closed.
- g) (Closed): The inspector examined the licensee's actions in regard to the frequency for performing calibration of air samplers used in the radiological environmental monitoring program. This concern was discussed in Section 5 of Region V IE Inspection Report 50-361/81-35. A Preventative Maintenance (PM) order was initiated to require annual calibration checks of the air samplers. This matter is considered closed.
- h) (Closed): The inspector examined the licensee's actions in regard to determining the need for heat tracing of the NMC Normal Vent Stack Monitoring system. An engineering evaluation was performed by Bechtel Power Corporation (BPC) to determine whether or not heat tracing of the monitoring system sample lines is necessary. The results of the BPC engineering evaluation dated March 3, 1982 as documented for Job Number 10079-003, File No. S023-457A, Calculation No. 75-M-13 was reviewed during the inspection. The engineering evaluation concluded that condensation would be eliminated with the addition of pipe insulation on the sampling line. The inspector verified from a personal observation that the pipe insulation had been installed. This matter is considered closed.
- i) (Closed): The inspector examined the licensee's action in regard to the environmental qualification of the Containment Area High Range Monitor cable connections discussed in Section 6 of Region V IE Inspection Report 50-361/82-09. The inspector verified from personnel observations that the monitors were environmentally qualified as committed to by the licensee in Enclosure 1 of Inspection Report 50-361/82-09. This matter is considered closed.

- j) (Open): The inspector examined the licensee's actions in regard to particulate deposition of the effluent monitoring systems due to the long sampling lines and numerous right angle bends and from mechanical fittings on the sampling skids. This concern is discussed in Section 6 of Region V IE Inspection Report 50-361/82-09 and previous preoperational inspection reports. The inspector reviewed BPC report number Log BE-5668 of February 12, 1982 with Enclosure (1) and BCP's Calculation Title Sheet, File No. 659-A, Calculation No. N-720-5 entitled, "Plateout of Particulates in Sample Lines" during the inspection. The results of sample line plateout calculations and correction factors reported by BPC for the various monitors are as follows:

<u>Monitor</u>	<u>Plateout Fraction</u>	<u>Correction Factor</u>
Containment Airborne (RE-7804)	.80	5
Containment Airborne (RE-7807)	.78	5
Plant Vent Stack (RE-7808)	.57	2
Radwaste Area Vent (RE-7809)	.72	4
Fuel Handling Building (RE-7822)	.55	2
Fuel Handling Building (RE-7823)	.72	4
Control Room Airborne (RE-7824)	.68	3
Control Room Airborne (RE-7825)	.77	4
Wide Range Effluent (RE-7865) - Piping	.75	4
Wide Range Effluent (RE-7865) - Tubing	.76	4
Wide Range Condenser Air Ejector (RE-7870) - Piping	.60	3
Wide Range Condenser Air Ejector (RE-7870) - Tubing	.55	2

The need for ensuring that the results are provided to the effluent engineer for inclusion in appropriate effluent monitoring program procedures was emphasized at the exit interview. The licensee indicated that the values would be included in appropriate station procedures. The licensee also hopes to substantiate the above results by performing SAI particulate deposition studies. The schedule for accomplishing the SAI studies is tentatively set to start during the latter part of April or early May of 1982.

- k) (Open)81-16-01: The inspector examined the status of the licensee's respiratory protection program. In particular only those concerns discussed in Region V IE Inspection Reports 50-361/81-16 and 50-361/81-35 were examined. A "memorandum for file" dated January 4, 1982 and a Songs 2/3 memorandum number CT03, MEC-577 dated February 19, 1982 were reviewed. Both memos discuss the requirements for upgrading of the Service Air System as a source of breathing air. Additionally, the latter memo recommends the use of a portable air breathing system as a supplement to the Service Air System. Discussions held with the RPM revealed that the Service Air System upgrading to Reg. Guide 8.15 and NUREG 0041, Section 9.8 recommendations is expected to be completed in time to support the first refueling outage.

No items of noncompliance or deviations were identified.

3. Actions on IE Bulletins

- a) (Closed) IEB 80-10, Contamination of Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release of Radioactivity to Environment

The licensee has completed their evaluation of this bulletin and has concluded their procedures and equipment adequately address the concerns of the bulletin. Procedures require periodic sampling of nonradioactive systems. Additionally, radiation monitors are installed to detect leakage into nonradioactive systems to preclude the possibility of exceeding the limits of 10 CFR 20. Previous license actions are discussed in Region V IE Inspection Report 50-361/81-06. This matter is considered closed.

No items of noncompliance or deviations were identified.

4. Radiological Effluent Monitoring Program

The inspector examined the status of the licensee's Radiological Effluent Monitoring Program. The program is discussed in Section 7 of Region V IE Inspection Report 50-361/82-09. Discussions were held with the Effluent Engineer and a review of station chemistry procedures to be used for implementation of the program was conducted.

The establishment of this program which includes the preparation and issuance of applicable procedures and training of personnel appeared to be emerging in an orderly process.

No items of noncompliance or deviations were identified.

5. Implementation of Process and Effluent Monitoring Systems

The inspectors examined the status concerning the implementation of process and effluent monitoring systems. Concerns in regard to this item are discussed in Region V IE Inspection Reports 50-361/82-09 and 50-361/81-35. A review of training plans and records and discussions with the Radiation Monitoring Task Force members was conducted during the inspection. The examination revealed that the implementation of these systems appeared to be progressing in an orderly process due to the efforts of the Task Force.

Station procedures for performing Tech Spec surveillance checks and calibrations have been issued as committed to and described in Inspection Report 50-361/82-09. Training of station personnel as committed to and described in Inspection Report 50-361/82-09 was in progress at the time of this inspection.

The training program for use of radiation and effluent monitoring systems included classroom instructions, handout material and an examination. Copies of the handout material and exam were reviewed during the inspection.

No items of noncompliance or deviations were identified.

6. Tour

Tours of the licensee's facilities were conducted by both inspectors. One inspector spent approximately 24 hours touring areas of the facility in preparation for implementing the power accession and operational radiation protection inspection program. Specific items of interest were brought to the attention of the licensee representative present during the tour.

No items of noncompliance or deviations were identified.

7. Exit Interview

At the conclusion of the inspection, the inspector met with those persons identified in paragraph 1 of this report. The scope of this inspection and the findings were described. The licensee was informed that there were no items of noncompliance or deviations.