

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-312/82-20

Docket No. 50-312 License No. DPR-54 Safeguards Group _____

Licensee: Sacramento Municipal Utility District

P. O. Box 15830

Sacramento, California 95812

Facility Name: Rancho Seco

Inspection at: Herald, California (Rancho Seco site)

Inspection conducted: May 10-14, 1982

Inspectors: *G. Hernandez* 7/28/82
G. Hernandez, Reactor Inspector Date Signed

Date Signed

Approved by: *W. H. Wagner* 7-28-82
for J. H. Eckhardt, Acting Chief, Reactor Projects Section I Date Signed
Reactor Construction Projects Branch

Summary:

Inspection on May 10-14, 1982 (Report No. 50-312/82-20)

Areas Inspected: Routine unannounced inspection by a regionally based inspector of licensee activities related to plant modifications including: licensee action on previously identified inspection finding; review of construction and quality implementing procedures; observation of structural concrete work activities; and review of quality records. In addition, the inspector reviewed the status of the HPI nozzle and steam generator repair program, and licensee action on a recently submitted Part 21 report on defective instrument cable manufactured/supplied by Brand Rex Inc.

The inspection involved 36 inspector-hours onsite by one NRC inspector.

Results: Of the six areas examined one item of noncompliance was identified, (this item is identified in paragraph 6).

DETAILS

1. Persons Contacted

a. Sacramento Municipal Utility District (SMUD)

- *L. G. Schwieger, Quality Assurance Director
- *J. M. Parman, Quality Control Coordinator
- *T. E. Perry, Quality Assurance Site Supervisor
- *W. J. Jurkovich, Generation Engineering
- *V. C. Lewis, Civil Supervisor
- *J. McColligan, Principal Project Engineer
- *G. Coward, Maintenance Supervisor
- *S. Crunk, Nuclear Operations
- *J. Edwards, Engineering Technician
- J. Jewett, Senior Quality Assurance Engineer
- S. W. Rutter, Quality Engineering Associate

b. Bechtel Power Corporation (Bechtel)

- C. Letellier, Quality Control Electrical Inspector
- H. Davis, Quality Control Civil Inspector
- E. Conely, Quality Control Mechanical Inspector

c. SMF Corporation

- T. Twomey, Job Superintendent
- H. Keltner, Engineer

*Denotes those attending the exit interview on May 14, 1982.
Also, in attendance was Mr. Jack O'Brien, the NRC resident inspector.

2. Site Tour

Upon arrival at the site, the inspector toured the facility modifications to observe in-process and completed work activities to ascertain general compliance with regulatory requirements, codes, standards and site procedures.

No items of noncompliance or deviations were identified.

3. Licensee Action on Previously Identified Inspection Items

a. (Closed) Noncompliance (50-312/82-02/01): Failure to control welding filler material in accordance with procedural requirements.

The licensee's response to the item of noncompliance was submitted by letter dated April 27, 1982.

The inspector examined the licensee's corrective actions and observed that the corrective actions appeared to be accomplished as stated. The licensee increased surveillance in this area and has held detailed discussions with the contractor personnel on the importance of complying with procedural requirements. Observation of welding activities by the inspector did not identify any deviations from licensee/contractor procedures or code requirements.

This item is closed.

- b. (Closed) Noncompliance (50-312/82-02/03): Control and Storage of ASTM A325 Bolting Material.

The licensee's response to the item of noncompliance was submitted by letter dated April 27, 1982.

The inspector examined the licensee's corrective actions and observed that the corrective actions appeared to be accomplished as stated. The licensee increased surveillance in this area and held detailed discussions with the contractor personnel on the importance of complying with procedural and ANSI N45.2.2 requirements. Observations by the inspector of general work areas, including Nuclear Service Electrical Building, did not identify items of noncompliance or deviations.

This item is closed.

4. Plant Status - Newly Identified Items

- a. The plant was in cold shutdown for the entire month to perform repairs to the "A" and "B" High Pressure Injection Nozzles and the Auxiliary Feedwater Headers in both "Once Through Steam Generators" (OTSG). The status of the 4PI nozzle repair and the Auxiliary Feedwater Header problem is fully discussed in I.E. Inspection Report No. 50-312/82-21 (paragraph 2.).

With respect to the above two items, NRC Region V in a task interface agreement with NRR has been charged with the review of the licensee's QA/QC program, management controls and monitoring of the licensee's repair activities. These activities will be reviewed during a future NRC inspection. (Special Item: 50-312/82-20/01)

- b. On May 10, 1982, the Region V office received a Part 21 report from the licensee concerning a Brand Rex defective electrical cable (Number 019411 manufactured under cable code K25). The cable, a two conductor shielded #16 AWG cable, was found to be covered with white powder, and deteriorating possibly due to being subjected to adverse environmental conditions. The licensee has quarantined the cable reel and all other like reels and manufacturer representatives have obtained samples in order to determine the cause of the deterioration.

The licensee's actions with respect to this item will be reviewed during a future NRC inspection. (Part 21: 50-312/82-20/21)

5. Structural Concrete (Safety Related Structures)

a. Observation of Work and Work Activities

Concrete placement activities were observed for the Nuclear Service Electrical Building's Placement No. 23 (the roof slab) for compliance with the applicable specifications, procedures and standards. The activities observed consisted of placement preparation, concrete mixing, transporting, placement, consolidation, field testing and QC inspection.

No items of noncompliance or deviations were identified.

b. Review of Quality Records

The quality records for the above placement were reviewed for compliance to the applicable specifications and/or procedures. The records reviewed included concrete preplacement, placement, batch plant tickets, and post-concrete placement records.

No items of noncompliance or deviations were identified.

6. U.S. Testing Company - Review of Quality Records

Records of test and inspection activities performed by the site testing laboratory, U.S. Testing, were reviewed. The records included water, cement and aggregate tests, concrete sampling and testing, and batch plant inspection. The inspector also verified that all measuring and test equipment was calibrated as required by Engineering and Inspection Instruction (EII) No. G-6 and 10 CFR 50, Appendix B Criterion XII. All equipment was calibrated as required, except for the following:

Inspection of the Gilson Shaker and Screens revealed that the calibration had expired on April 29, 1982, however, the records indicated that Aggregate Sample No. AGD-20.1 was tested using this equipment on May 12, 1982. Sample No. AGD-20.1 represented material that was used during concrete placement no. 23. Placement No. 23 is a Quality Class I placement. Discussions with U.S. Testing personnel indicated that they had utilized the equipment knowing that the calibration date had expired and without documenting the discrepancy on a nonconformance report. In addition, EII No. G-6 in paragraph 2.1 states that, "The scope of this procedure covers those Rancho Seco measuring and test equipment and calibrated tools which are maintained by Generation Engineering and required in support of construction requirements used

in activities affecting quality class. A master equipment list of these calibrated items shall be maintained by Generation Engineering Inspection Department." However, it appears that this procedure was never implemented, since a master equipment list for construction equipment did not exist.

The failure to follow quality procedures to assure that measuring and test equipment is properly controlled, calibrated and adjusted within specified limits is considered an apparent item of noncompliance with 10 CFR 50, Appendix B, Criterion V, "Instruction, Procedures, or Drawings." (Noncompliance: 50-312/82-20/02)

7. Management Interview

On May 14, 1982, the inspector met with licensee and engineering management personnel denoted in paragraph 1. The scope of the inspection, the observations and findings of the inspector were discussed. The licensee acknowledged the inspector's concerns and committed to an immediate audit to address the items identified with equipment calibration and the site procedures.