

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-528/82-27

Docket No. 50-528 License No. CPPR-141 Safeguards Group _____

Licensee: Arizona Public Service Co.

P. O. Box 21666

Phoenix, Arizona 85036

Facility Name: Palo Verde Nuclear Generating Station - Unit 1

Inspection at: Palo Verde Site, Wintersburg, Arizona

Inspection conducted: September 20-October 15, 1982

Inspectors: Talbert Young Jr. for 10-20-82
G. Fiorelli, Senior Resident Inspector Date Signed

Talbert Young Jr. for 10-20-82
G. Johnston, Resident Inspector Date Signed

Date Signed

Approved by: Talbert Young Jr. 10-20-82
T. Young Chief, Reactor Projects Section No. 2 Date Signed

Date Signed

Summary:

Inspection on September 20-October 15, 1982 (Report No. 50-528 82-27)

Areas Inspected: Routine resident inspection of startup testing, startup quality assurance, maintenance, training and hydrogen recombiner missile barrier installation. The inspection involved 155 inspector-hours onsite by the resident inspectors.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

a. Arizona Public Service Company (APS)

- *G. C. Andognini, Electric Operations Vice President
- *J. Allan, Technical Support Manager
- *J. Kirby, Startup Manager
- G. Pankonin, Startup Quality Assurance (QA) Manager
- *W. Craig, Startup QA Supervisor
- D. N. Willsey, Technical Support Supervisor
- C. Russo, Operations QA Manager
- D. Sanchez, Electrical Test Group Supervisor
- B. Bennet, I/C Test Group Supervisor
- W. Roman, Test Engineer
- R. Cavalieri, Shift Test Coordinator
- *J. Koedel, QA Manager

*Present at exit meeting.

2. Maintenance

During the month of September, the primary coolant system was drained to allow APS maintenance and Bechtel construction to repair valves that were observed to be leaking during the primary coolant system hydrostatic test. This period afforded APS maintenance an opportunity to test and implement its work control procedures. The inspector conducted reviews of maintenance work in progress. Activities reviewed and observed were:

- a. Safety injection safety valve repair.
- b. Safety injection valve repacking.
- c. Containment spray flow element removal and line inspection.

It was noted that work control authorizations, instructions, technical references and quality control (QC) signoffs were included in the work control packages in accordance with administrative control procedures. Discussions with maintenance personnel conducting the maintenance work confirmed that they were knowledgeable about work control procedures as well as the work activities. The inspector noted that there were some changes to the program implementation that warranted APS attention. These observations had also been noted by APS/QC and were to be discussed with APS maintenance.

A review was made of Bechtel's preventative maintenance activities which had occurred since January of 1982. The inspector noted that schedules had been prepared for the preventative maintenance activities of equipment under the

responsibility of Bechtel. The schedules were current and indicated that the required maintenance had been completed on the frequency specified. The activities reviewed include:

- a. Auxiliary feed water pump - PMS
- b. Nuclear cooling water pump - PMS
- c. Fuel pool cooling water pump - PMS
- d. 125V DC battery - PMS

Check sheets reviewed were completed in accordance with procedures. Reviews and approvals were indicated. The check sheets were filed in the APS document and drawing control center and were readily retrievable and are available to APS maintenance when equipment transfers are made.

The maintenance activities reviewed did not disclose any instances of jurisdiction violations or testing invalidation and were considered to have been performed in accordance with program requirements. APS has not implemented its program for equipment performance trending (historical files). This program is currently being developed.

No items of noncompliance or deviations were identified.

3. Hydrogen Recombiner Missile Barrier

The inspector confirmed that the missile barriers protecting the supply and exhaust ports of the hydrogen recombiner have been installed. APS had committed to the NRC that this installation would be made.

No items of noncompliance or deviations were identified.

4. Preoperation Test Procedure Review

The initial issuance of the 125 V DC battery preoperational test procedure was reviewed by the inspector for technical content, conformance to regulatory requirements, and consistency with administrative controls governing procedure development and approval. Several questions arose as a result of the procedure review that dealt with battery capacity and design performance confirmations. These were forwarded to the APS for evaluation.

No items of noncompliance or deviations were identified.

5. Training

A review was made of several staff training records related to startup testing and startup QA/QC. The training program associated with startup testing was progressing in a timely fashion. A master schedule and program progress were being maintained to reflect the status of personnel attendance and qualifications. Training records of startup testing personnel are in the process of being compiled. Other work priorities had delayed the packaging and filing of training information of individuals at the time of the review.

A review of training records of several QA/QC personnel confirmed that training was being accomplished as identified by procedures. Certifications of QA/QC qualifications were also noted to be included in personnel files. With minor exception which involved some clarification of training for QA staff, records appeared consistent with program requirements.

No items of noncompliance or deviations were identified.

6. Startup Testing

A new startup manager has been selected to head up startup testing. Mr. J. Kirby who formerly held the position of Manager Operations and Maintenance now holds the position and reports directly to the Executive Vice President of Electric Operations.

Several completed and inprocess prerequisite tests were reviewed by the inspector. It was noted that procedures were properly approved and test conduct requirements were being followed. Several temporary modifications were reviewed and found to comply with procedural requirements.

The primary and secondary coolant systems are currently drained and inerted with nitrogen. Chemical analyses of water in storage tanks were within limits for chloride and fluorides.

A check of preoperational test procedures confirmed a master listing exists which identifies the most current issues of the test procedures. This list is frequently updated.

No items of noncompliance or deviations were identified.

7. Tours

Several plant tours had been conducted during the period. The general housekeeping conditions of the plant continues to improve. No instances of fire potential were noted. No unauthorized work, equipment abuses, instrumentation damage, opened pipe ends, or jurisdiction violations were noted. Because of testing and work which has been performed on equipment that is jurisdictionally tagged, a general deterioration of the tags has occurred. Implementation of clearance tagging has improved, however there are occasional instances where APS operations has found tagging procedure violations. These instances have been related to personnel safety.

Log books continue to be maintained by control room operators, shift supervisors, and test coordinators. The inspector has noted several log book entries which do not indicate follow-up action. This has been brought to the attention of APS.

No items of noncompliance or deviations were identified.

8. Exit Meeting

An exit meeting was held on October 13, 1982, with Mr. G. C. Andognini and his staff. The findings were discussed and the inspectors were updated on pertinent APS project planning.