U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION V

Report No. 50-528/81-22

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: November 2-30, 1981

Inspectors: PH Johnson 12/15/81
for G. Fiorelli, Senior Resident Inspector Date Signed

PH Johnson 12/15/81
P. H. Johnson (November 18-20, 1981), Reactor Inspector Date Signed

Date Signed

Approved By: GB Zwetzig 12/16/81
G. B. Zwetzig, Chief, Reactor Projects Section 1 Date Signed

Summary:

Inspection on November 2-30, 1981(Report No. 50-528/81-22)

Areas Inspected: Routine, unannounced resident inspection of preoperational testing controls, QA of startup activities, operator training, and plant equipment installations. The inspection involved 110 inspector-hours on-site by the resident and project inspectors.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

F. W. Hartley, Nuclear Operations Manager
W. B. McLane, Startup Manager
C. N. Russo, Operations Quality Assurance Manager
J. Behm, Acting Quality Auditing Supervisor
J. Minnicks, Instrumentation and Controls Supervisor
W. Garrett, Maintenance Control Center Supervisor
F. Hicks, Licensed Operator Training Supervisor

2. Startup Testing

The inspector was informed that Arizona Public Service Co. (APS) has reassigned responsibility for conduct of component testing type activities (through system hydrostatic testing) to the Bechtel startup organization. This organization, however, will report to the APS Manager of Nuclear Operations. All of the Bechtel startup staff which reported to the APS startup manager will now be returned to the Bechtel Startup organization as will all systems and document packages previously turned over to APS. The APS startup organization responsibility for system testing will start with preoperational testing, at which time system design will be confirmed. Formal releases of systems to APS will continue to be controlled by approved procedures.

Factors contributing to the realignment of testing responsibilities included resource availability, Bechtel-APS startup interface issues, and needed improvement in the efficiency of turnover of completed systems by Bechtel construction to the APS startup organization.

This action will require changes to the FSAR, which APS plans to make in the near future. It will also require the development and revision of control and test procedures by Bechtel and APS. This effort, as well as the formulation of the Bechtel startup organization, is currently in progress.

No items of noncompliance or deviations were identified.

3. Operations Quality Assurance

The inspector observed a portion of an audit conducted by an APS operations QA auditor. The audit related to the management of maintenance QA records. The audit was conducted using a predeveloped checklist and was performed by an auditor who was qualified in accordance with the APS QA organization qualification

procedures. The auditor was knowledgable of APS and NRC documents governing records control, and identified some items requiring further attention by maintenance management. The auditor stated that a report would be written covering the audit of records control in several organizational groups, and would be distributed to APS management.

No items of noncompliance or deviations were identified.

4. Plant Tours

Several plant tours were conducted during the month. Plant cleanliness has not deteriorated but continues to require attention. With minor exceptions, cable trays are properly maintained. Welding operations were observed to be conducted so as to protect against fires. No instances of instrumentation damage were noted and there has been a noticeable improvement in the control of access to the open reactor vessel.

No items of noncompliance or deviations were identified.

5. Operator Training

The records of experience and training for several operators and instructors were reviewed. Forms had been developed for the recording of experience and training information. The system was undergoing upgrading, however, to improve the availability, visibility and completeness of training related information. The cognizant APS representative estimates that this system will be implemented within the next several months.

No items of noncompliance or deviations were identified.

6. System Turnovers

A review of subsystems of the Chemical and Volume Control System confirmed that the turnover of these systems appeared to be properly controlled. An audit of the documentation packages, equipment tagging, master tracking system, and approval documentation indicated the systems were turned over as required by administrative procedures. (Note: these subsystems will be returned to Bechtel per paragraph 2.)

No items of noncompliance or deviations were identified.

7. Safety Injection System Installation

Review of installation of the Safety Injection System (SIS) in accordance with the design continued. Additional exceptions involving the safety injection tank and low pressure injection systems were noted. These systems have not been inspected or accepted by APS as yet. A review of the APS master tracking list developed following walkdown of the high pressure safety injection system by APS, confirmed that they had identified the items previously noted by the inspector. This system was not accepted by APS because of the numerous construction items requiring completion.

No items of noncompliance or deviations were identified.

8. Exit Interview

An exit interview was conducted with the Manager of Nuclear Operations on November 20, 1981. At that time the inspectors were briefed on the changes in startup testing responsibilities. Assurances that testing would be conducted with approved procedures and with qualified personnel were provided by the Manager of Nuclear Operations.