

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

REGION V

Report No. 50-528/81-21

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: October 1-30, 1981

Inspectors: G. B. Zwetzig for November 6, 1981  
G. Piorelli, Senior Resident Inspector Date Signed

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Date Signed

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Date Signed

Approved By: G. B. Zwetzig November 6, 1981  
G. Zwetzig, Chief, Reactor Projects Section 1 Date Signed

Summary:

Inspection on October 1-30, 1981 (Report No. 50-528/81-21)

Areas Inspected: Routine, unannounced resident inspection of preoperational testing, maintenance, startup testing QA, water chemistry and administrative control of NRC publications. The inspection involved 104 inspector-hours on-site by the resident inspector.

Results: No items of noncompliance or deviations were identified.

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## DETAILS

### 1. Persons Contacted

F. W. Hartley, Nuclear Operations Manager  
W. B. McLane, Startup Manager  
C. N. Russo, Operations Quality Assurance Manager  
W. B. Garrett, Maintenance Control Supervisor  
J. F. Mennicks, Instrumentation and Control (I&C) Supervisor  
J. B. Cederquist, Chemistry Supervisor  
R. Badsbard, Licensing Engineer  
M. Jackson, Principal Startup Engineer (Mech.)  
W. Mathis, Startup Engineer (I&C)  
W. Ide, Supervisor, Construction Quality Assurance (QA)  
\*J. Hargon, Project Startup Engineer (Bechtel)

\*Reports to Arizona Public Service (APS) Startup Manager

### 2. Training

The inspector attended an operator training class conducted by Dr. Holmes who is a contract instructor from the Oak Ridge National Laboratory. The subject dealt with nuclear physics and was being given to the second class of senior reactor operator candidates. The course duration is four weeks, at which time, it will have been completed by 34 individuals.

No items of noncompliance or deviations were identified.

### 3. Maintenance

The maintenance organization is headed by a maintenance superintendent. Reporting to him are five supervisors who supervise activities involving mechanical maintenance, electrical maintenance, instrument and control maintenance, station services and maintenance control services. The latter group is responsible for scheduling, coordinating and controlling the preventive and corrective maintenance programs. Procedures have been written which describe the manner in which the program will be implemented and controlled. The maintenance control service group also will develop document packages to support the maintenance activities, thereby relieving the first line foreman and craftsmen of this task. The group will also trend equipment performance. The control activities will be accomplished with the aid of computers and a projected staff of approximately 30. Requirements for maintenance surveillance and preventive maintenance have been minimal, since few systems have been turned over to APS thus far. Procedures are being written for the conduct of work. This effort appears to be the most critical from the standpoint of maintaining pace with the turnover of systems to APS.



No items of noncompliance or deviations were identified.

4. Water Chemistry

The chemical analysis of the water used to fill the reactor vessel during pre-service inspection (ultrasonic testing) of the vessel was reviewed. Several samples per day had been taken of the demineralized water used. The analysis of these samples showed chloride and flouride levels within the specification which will apply during normal operation.

No items of noncompliance or deviations were identified.

5. Operations Quality Assurance

A report of findings made by the APS QA auditor dealing with test control was reviewed by the inspector. The report identified a series of items that dealt with procedure implementation and procedure availability which will require corrective actions. The report receives a wide distribution which includes the Vice President of Electric Operations.

No items of noncompliance or deviations were identified.

6. IE Bulletins - Circulars - Information Notices

A review of the licensee's follow-up efforts on actions requested and recommended by IE Bulletins, Circulars and Information Notices confirmed that a system currently exists for tracking task responsibility, due dates and action completions. Information related to these publications will be made a part of the licensee's licensing commitment list currently tracked by computer. A procedure describing the flow of reviews has also been written. A review of the licensee's handling of Bulletins 80-12 and 80-16 confirmed the procedure was being implemented.

No items of noncompliance or deviations were identified.

7. Plant Tours

Several tours of the reactor building were made during the month. The inspector observed that the cleanliness of areas adjacent to the open reactor vessel had deteriorated. This was brought to the attention of APS construction QA who had made similar observations and had initiated action to correct the condition. Follow-up tours confirmed that action had been taken to improve this condition in those areas adjacent to the open vessel.



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No items of noncompliance or deviations were identified.

8. Exit Interview

The inspector met with the Nuclear Operations Manager on October 31, 1981, and discussed the findings of the inspection. The status of startup testing was discussed in the context of having the necessary procedures in place for the control and conduct of the tests, as well as having systems which were appropriately completed prior to conducting the test. Assurance was provided that not only would procedures be finalized and the staff familiar with the procedures, but that testing would be realistically scheduled to insure proper control and continuity.



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