

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

50-528/80-20
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REGION V

Report No.

Docket No. 50-528, 529, 530 License No. CPPR-141, 142, 143 Safeguards Group _____

Licensee: Arizona Public Service Company

P. O. Box 21666

Phoenix, Arizona 85036

Facility Name: Palo Verde Nuclear Generating Station - Units 1, 2 and 3

Inspection at: Palo Verde Construction Site, Wintersburg, Arizona

Inspection conducted: December 2-5, 1980

Inspectors:

J. H. Eckhardt
J. H. Eckhardt, Reactor Inspector

1/15/81
Date Signed

G. Hernandez
G. Hernandez, Reactor Inspector

1/15/81
Date Signed

Approved By:

R. T. Dodds
R. T. Dodds, Chief, Support Section
Reactor Construction and Engineering Support Branch

1/15/81
Date Signed

Summary:

Inspection on December 2-5, 1980 (Report Nos. 50-528/80-20, 50-529/80-20, and 50-530/80-20).

Areas Inspected: Routine, unannounced inspection by regional based inspectors of construction activities relating to licensee action on previous inspection findings, concrete placements, and HVAC installation. The inspection involved 44 inspection-hours onsite by two NRC inspectors.

Results: No items of noncompliance or deviations were identified.



DETAILS

1. Persons Contacted

a. Arizona Public Service Company (APS)

- *E. E. Van Brunt, Jr., Vice President, Nuclear Projects
- *J. A. Roedel, Quality Assurance Manager
- *A. C. Rogers, Nuclear Engineering Manager
- *J. M. Allen, Nuclear Engineering Manager
- *W. E. Ide, Site QA Supervisor
- *D. B. Fasnacht, Site Construction Manager
- *B. S. Kaplan, Quality Systems Supervisor
- G. Pankonin, QA Engineer
- R. D. Forrester, QA Engineer
- L. Souza, QA Engineer
- D. E. Fowler, QA Engineer

b. Bechtel Power Corporation (Bechtel)

- W. J. Stubblefield, Field Construction Manager
- *A. K. Priest, Project Field Engineer
- *R. M. Grant, Project QC Supervisor
- J. E. Pfunder, Project QA Engineer
- *D. R. Hawkinson, Project QA Supervisor
- L. Cox, Lead Discipline Field Engineer (Instrumentation)
- W. S. Cummings, Instrumentation and Calibration Lead Engineer
- S. Chavey, Instrumentation Field Engineer

c. Waldinger Corporation

- R. J. Yarges, QA Supervisor

* Denotes those attending exit interview.

2. Licensee Action on Previous Inspection Findings

The inspector examined the action taken by the licensee on the following item.

a. (Closed) Followup Item (50-528/80-12/02): Calibration of measuring and test equipment.

The calibration control system for measuring and test equipment was examined to ascertain corrective action for the administrative problems previously identified in IE Inspection Report Nos. 80-12 and 80-15. Review of the control log cards for selected equipment did not identify any administrative problems and the personnel responsible for the system appeared to be knowledgeable of the requirements. Examination of the recall system for equipment due for calibration indicated that a large percentage of the equipment is not being returned when required. The licensee was aware of this problem and was in the process of issuing a procedural change to place tighter controls for timely return of the equipment. The inspector had no further questions. This item is considered closed.



3. HVAC Components Fabrication and Installation (The Waldinger Corporation)

a. Review of Quality Assurance Implementing Procedures

The following Waldinger procedures were examined for compliance with the licensee's specifications, the applicable codes and the PSAR requirements.

- (1) SQCP No. 8.1-1, Weld Filler Material
- (2) SQCP No. 8.1-2, Identification and Control of Quality Class Q Duct Material
- (3) SQCP No. 12.1-1, Calibration and Control of Measuring and Test Equipment
- (4) SQCP No. 13.1-1, Storage of Nuclear Fabrication Material
- (5) FQCP No. 10.2-2.1, Inspection: Quality Class "Q" Duct and Accessories
- (6) FQCP No. 10.2-3.1, Inspection: Fabrication and Installation of Class "Q" HVAC
- (7) FQCP No. 15.2-1, Deficiency Report
- (8) FQCP No. 15.2-2, Nonconformance Report
- (9) FQCP No. 9.2-1, Qualification of Welders and Welding Operators
- (10) FQCP No. 8.2-1, Control of Welding Electrodes and Filler Metals

No items of noncompliance or deviations were identified.

b. Interviews with Quality Control Personnel

The inspectors held discussions with the Waldinger Quality Assurance Manager to review current work and assess his knowledge and understanding of safety-related HVAC quality activities currently in progress, and code/procedural requirements. It appeared that the individual had an adequate understanding of the requirements.

No items of noncompliance or deviations were identified.

c. Observation of Work and Work Activities

The inspectors examined Waldinger activities related to the storage, handling, protection and fabrication of HVAC safety related components. The examination included observations of HVAC duct and hanger identification; weld sizes, workmanship, and identification; welding material storage and issuance; use of proper fastener material; and in-process erection, installation, and inspection of duct and hanger components.



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The inspector examined the following quality class I HVAC ducts and supports located above the Unit 1 Control Room: 304-5-205, 304-4T-74, and 304-4V-140. All components examined appeared to be installed in accordance with the contractor's procedures and licensee and code requirements.

In addition, welder qualification records for six welders were reviewed, and measuring and test equipment control was examined.

No items of noncompliance or deviations were identified.

4. Structural Concrete

Concrete pre-placement and placement activities for Unit 3 placement Nos. 3C028-B, 3J007, and 3J006-A were observed for compliance to the requirements of the applicable specifications, codes, standards, and procedures. Specific attributes examined included formwork construction, placement of reinforcing steel in accordance with the drawings, wall tolerances, cleanliness, concrete free fall, concrete horizontal free flow, consolidation, sampling, testing and concrete delivery. All activities observed were found to be in accordance with the requirements.

No items of noncompliance or deviations were identified.

5. Management Meeting

On December 5, 1980, the inspectors met with licensee representatives identified in paragraph 1 and summarized the scope and findings of the inspection as noted in this report.

