

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report Nos. 50-528/87-21
50-529/87-22
50-530/87-23

Docket Nos. 50-528, 50-529 and 50-530

License Nos. NPF-41, NPF-51 and NPF-65

Licensee: Arizona Public Service Company
P. O. Box 21666
Phoenix, Arizona 85836

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

Inspection at: Palo Verde Site, Wintersburg, Arizona

Inspection Conducted: July 6-10, 1987

Inspected by:

G. A. Brown
G. A. Brown, Emergency Preparedness Analyst

7/16/87
Date Signed

Approved by:

R. Fish
R. Fish, Chief
Emergency Preparedness Section

7/17/87
Date Signed

Summary:

Areas Inspected: Routine unannounced inspection of licensee action on previous inspection findings, parts of the licensee's emergency planning program regarding shift staffing and augmentation, knowledge and performance of duties, audits, and follow-up on inspector-identified items. Inspection procedures addressed included: 82205, 82206, 82210, and 92701.

Results: No deficiencies or violations of NRC requirements were identified.

DETAILS

1. Persons Contacted

- *J. Haynes, Vice President, Nuclear Production
- *J. Driscoll, Assistant Vice President
- *J. Bynum, Plant Manager
- *R. Baron, Commitment Supervisor, Compliance
- *T. Barsuk, Supervisor, Site Emergency Planning
- *H. Bieling, Supervisor, Offsite Emergency Planning
- V. Elish, Technical Instructor III
- R. Faust, Lead Auditor, Quality Assurance
- *W. Fernow, Manager, ANPP Training
- *W. Ide, Director Corporate QA/QC
- J. Mattheson, Supervisor Quality Monitoring, Quality Assurance
- J. Michler, Instructional Technologist, Training Department
- D. Nichols, General Training Supervisor
- W. Rudolph, Lead Instructor Nuclear Training
- C. Russo, Manager, Quality Audits and Monitoring
- *T. Shriver, Compliance Manager
- *J. Sills, Senior Compliance Engineer
- *D. Yows, Manager, Emergency Planning and Preparedness

*Denotes attendance at the July 10, 1987 exit interview.

2. Follow-Up On Open Items

(Closed) Open Item No. 86-15-01. Radiation monitoring instrument located in wrong vent duct of TSC. The inspector performed a walk-down of the ventilation system and determined that the monitoring instrumentation is now in the proper location to monitor the air being supplied to the TSC. This item is closed:

(Closed) Open Item No. 86-15-07. Revise the dose assessment code so that adequate estimates can be made during changes in meteorological conditions or release rates. The licensee has installed new computer codes vended by Impell Corporation. Results of calculations made by the new code were consistent with calculations made by NRC's Interactive Rapid Dose Assessment Model (IRDAM) program. The licensee is presently implementing this new system into the dose assessment program and expects to have the procedures and training completed by September 1987. Progress in this area will be tracked through a related open item, No. 87-16-01. This item is closed.

(Closed) Open Item No. 86-15-08. Connect plant vent monitor to vital bus. All work has been completed. The inspector verified the following work packages:

- A. Unit 1 Work Package #185516 indicated completion on 6/9/87
- B. Unit 2 Work Package #171980 indicated completion on 12/30/86
- C. Unit 3 Work Package #176408 indicated completion on 6/25/87

This item is closed.



(Open) Open Item No. 87-01-01. Complete Unit 3 Post Accident Sampling System (PASS) technician training. Technician hands-on training is scheduled for week of July 12-18, 1987. PASS installation is incomplete. This item will remain open pending completion of all training.

(Open) Open Item No. 86-15-02. Provide backup communications which are separate from the Communication Room. The licensee states that approval has been granted and the communication lines have been purchased from Mountain Bell. The North switch frame has been moved from the Start Up Management Building to the North Annex Building. This item will remain open pending completion of the installation and implementation of the system.

3. Shift Staffing and Augmentation

This area was inspected to determine whether shift staffing for emergencies was adequate both in numbers and in functional capability, and whether administrative and physical means were available and maintained to augment the emergency organization in a timely manner. Related requirements are found in 10 CFR 50.47(b)(2) and 10 CFR Part 50, Appendix E, Sections IV.A and IV.C.

Shift staffing levels and functional capabilities of all shifts were reviewed and found to be consistent with the guidance of Table B-1 of NUREG-0654. The licensee has established an on-call system, so that essential off-shift personnel are available if needed. The call-in procedure appeared to be effective in meeting Table B-1 goals.

The inspector discussed staff augmentation times with licensee representatives. It was noted that the licensee had conducted a study of distances from the plant to the residences of its emergency response organization personnel to determine their capability to meet Table B-1 goals. The licensee, however, had not conducted any type of drill within the last several years to evaluate the effectiveness of its augmentation capabilities. The inspector expressed his concern to the licensee regarding frequent monitoring of the augmentation capabilities. This matter will be examined in a subsequent inspection and tracked as Open Item No. 87-22-01.

Several positions within the emergency response organization were noted to have only one individual available to staff the position because of expiration of training qualifications. The inspector expressed to the licensee his concern that trained personnel may not be available to man all positions in the emergency response organization at all times. This matter will be examined in a subsequent inspection and tracked as Open Item No. 87-22-02.

No violations or deviations were identified in this program area.

4. Knowledge and Performance of Duties

This area was inspected to determine whether emergency response personnel understood their emergency response roles and could perform their

assigned duties as required by 10 CFR 50.47(b)(15) and 10 CFR Part 50, Appendix E, Section IV.F.

The inspector reviewed the emergency plan's description of the training program, training procedures, and selected lesson plans, and interviewed members of the instructional staff. Based on these reviews and interviews, the inspector determined that the licensee was maintaining a formal emergency training program.

Records of training for key members of the emergency response organization for the period May 1986 to June 1987 were reviewed. The training records revealed that personnel designated as primary or alternates in the emergency organization were provided with appropriate training. According to the training records, the type, amount, and frequency of training were consistent with approved procedures.

The inspector conducted walk-through evaluations with selected key members of the emergency organization. During these walk-throughs, individuals were given various hypothetical sets of emergency conditions and data and asked to respond as if an emergency actually existed. The individuals demonstrated familiarity with emergency procedures and equipment, and no problems were observed in the areas of emergency detection and classification, notifications, and protective action decision-making.

No violations or deviations were identified in this program area.

5. Licensee Audits

This area was inspected to determine whether the licensee had performed an independent review or audit of the emergency preparedness program in accordance with the requirements of CFR 50.54(t).

Records of audits of the program were reviewed. The records showed that an independent audit of the program was conducted by a qualified audit team on July 7-22, 1986. This audit fulfilled the 12-month frequency requirement for such audits. The audit records showed that the State and local government interfaces were evaluated. Audit findings and recommendations were presented to plant and corporate management.

Licensee emergency plans and procedures required critiques following exercises and drills. Licensee documentation dated June 1, 1987 of the assembly and accountability drill performed on April 22, 1987 and Audit Report No. 86-021 showed that critiques were held following periodic drills as well as the annual exercise. The records showed that deficiencies were discussed in the critiques, and recommendations for corrective actions were made.

The licensee's program for follow-up action on audit, drill, and exercise findings was reviewed. Licensee procedures required follow-up on deficient areas identified during audits, drills, and exercises. The inspector reviewed licensee records dated August 6, 1986 which indicated that corrective actions were taken on identified problems, as appropriate.

The licensee had established a tracking system as a management tool in following up on actions taken in deficient areas.

No violations or deviations were identified in this program area.

6. Exit Interview

The scope and findings of the inspection were discussed with the licensee's representatives at an exit interview conducted on July 10, 1987. The inspector discussed the items regarding periodic reviews of the licensee's emergency response organization capabilities and the training of sufficient number of personnel to ensure that all positions in the emergency response organization can be manned at all times. The licensee agreed to address the issues. The licensee's representatives attending this exit interview have been denoted in Section 1 of this report. The licensee was informed that no violations or deviations were identified as a result of this inspection.

