U. S. NUCLEA: REGULATORY COMMISSION

REGION V

Report No.	50-528/82-38	
Docket No.	50-528 License No. CPPR-141	Safeguards Group
Licensee:	Arizona Public Service Company	
	P. O. Box 21666	
	Phoenix, Arizona 85036	
Facility N	ame: Palo Verde Nuclear Generating Station Unit 1	
Inspection	at: Falo Verde Site, Wintersburg, Arizona	
Inspection	Conducted: December 20 - January 21, 1983	
Inspectors	a. Florelli, senior hesident inspector	1-28-83 Date Signed
	Talkent young by for	/-28-83 Date Signed
Approved b	y: Tellest Joung of.	1-28-83 Date Signed
Summary:	Inspection on December 20, 1982 - January 21, 1983	
Areas Insp	ected: Routine resident inspection of startup test	ing, ILRY, startup

Areas Inspected: Routine resident inspection of startup testing, ILRT, startup quality assurance/quality control (QA/QC), fuel receipt preparations and TMI items. The inspection involved 163 inspector hours on-site by the resident inspectors.

Results: No items of noncompliance or deviations were identified.

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1. Persons Contacted

Arizona Public Service Company (APS)

G. C. Andognini, Electric Operations Vice President

*J. R. Bynum, Nuclear Operations Manager

*J. Kirby, Startup Manager

E. Taylor, Prooperational Startup Manager
*W. F. Fernow, Administration Support Manager

*J. H. Allon, Inchnical Support Manager *G. Pankonia, Startue GA/OE Manager P. F. Crewley, Nuclear Supervisor

*8. Kramer, Licensing Supervisor

*R. A. Berster, Unit 1 Operations Supervisor

H. Byrdick, Shiff Test Coordinator

L. Fly, lost Director

R. Thomas, Systems Completion Engineer D. Stewart, Scheduling, Supervisor

b. Sechtel Corporation

J. L. Teruka, Startup Manager

T. E. Mays, Assistant Startup Manager

f. f. Quiggle, MSSS Project Engineer Group Supervisor

R. L. Fotter, Assistant Startup Manager

C. E. Pierce, Unit | NSSS Engineer Group Supervisor

R. Mody, Training Supervisor

C. L. Schweds, Maintehance Supervisor

*Attended exit meeting.

2. Startup Quality Assurance (QA) = Quality Control (QC)

Quality control follow-up of startup testing activities continues to be performed on a three shift basis. Observations by the AFS startup QC staff of preoperational testing of safety related systems are accomplished with the aid of check sheets. These check sheets identify significant items to be confirmed or observed. Of review will be made of all safety-related preoperational tests. A review of one of the QC packages confirmed that the required reviews were being accomplished by QC.

The inspector reviewed several reports of problems identified by QA/QC. These reports are formal and have widespread distribution. Open items are being tracked and response overdue notifications have been necessary in some cases. APS management has been dealing with the issues identified, some of which have been repetitive in nature.

No Items of noncompliance or deviations were identified.

Frereignisite Disciption Test Schedule (DIS)

The DTE identifies these prerequisies dets union are required to be completed on individual system components and coroutts prior preservational testing. To date this schedule has not been complete and has coused some procious with testing afficiency. A major effort has been undertoken to raving the DTE in the term disciplines of supplying, machinism, and t/C is order to make the DTE particle required testing and preser status of supplying. Europeity procious may not he industrial until the release of subsystems to APE. This then observables reviews and perhaps additional testing at a time which sould impact on the start of presperational testing at a time which sould impact on the start of presperational testing: Efforts to resolve the metter appear to be patting proper attention.

No item of noncompliance or deviations were identified.

4. funl Receipt Preparation

APS has been effects proceeding with preparation for fuel receipt.

In this connection procedures are being developed for fuel handling equipment in being preoperationally tested, the registion protection program to being preoperationally progrations are being developed, and equipment handlers are preparing to train for their fortifications. Special training at it in windoor, immocticul has been received by APS shaff members. All of these activities are currently in programs and are alamned to be committed prior to furl receipt which is tendelinely achemised for february. Based on the imprecent's review of activities in programs and meetings with responsible claff members; it appears that programs and meetings with responsible claff numbers; it appears that proper efforts are being directed by APS to support receipt of fuel.

No items of noncompliance or deviations were identified.

5. SMI Item 11.E.1.2 Part 2 Auxillary Feedwater System Flow Sate Indication

A review was made of the plane to incorporate additional auxiliary feeduator flow indication to each of the steam demorators. The installation on the control room boards of two channels of flow indicators fl dox and dik to be. I steam demorator and fl dox and dik to be. I steam demorator and fl dox and dik to be. I steam demorator and fl dox and dik to be. I steam demorator and fl dox and dik to be installation of processor in addition, the inspector observed the installation of processor indicators life and lox, one on each of the two safety auxiliary feeduator trains and the installation of four channels of steam demorator level indication on each of the two steam generators.

The color coding of the instrument labels for the groups of instrumentation indicated that the channels are supplied from different power sources. A selected review of drawings for the pressure and flow indicators confirmed the power sources to the pressure and flow indicators channels are from bus PEA - MEI for channel A instrumentation and from bus PEE - MEZ for channel B instrumentation. The 125% electrical supplies to the channels are supprate and backed up by the batteries and diesel generators. The instrumentation is designed to be safety-grade and environmentally qualified.

The Finnings of this regime are consistent with prepiatent of Section 11.5.1.5, fort 3, of Models 6707.

No those of enecompliance or deviations were identified.

6. 196 lasm 11. E.S.1 Aprillary System Forebooker Englaphine

The licenses has conducted an engine's of the buriliary feedbader anches which has been constituted to the feed topologicalist to the field.

Actions initiated as a result of this study tectube the fectourse-

- a. A dovings change her home initiated to supply the Rhird supplies; Treebunier pump and the motor operates setted from the state & dissersomerator.
- 5: York values from Frais & (Furbine driven name) and Inpin B Implor driven pump) will have popision assembleation inc incidence a celos to not completely claudel by the constant rape.
- 6. Submitted technical operifications contain provintant for total system texting every in months. This was one of the conclusions of the containing

The findings of this veries are constakent with provisions of Speaken it.E.I.I. of Nombo Diet.

No Items of concompliance or deviations were identified.

7. Preoperational Startum Section

The presentational business and the completes in the business section of furl heading equipment and the completes of emphication section following a major decise related to thi modification. Testing has been limited due to a major stackrical optage on the S tests. The nutses was taken to incolourate duties changes. The privacy content colour testing and category testing and category injection cyclams. The systems has been distinct for the 1221. The filling was accomplished by an approved temporary operating solder. A festing of bystem changes confirmed tones more being majoration of bystem changes confirmed tones were being majorated.

The primery confest saytem pressure projection is being maintained by two pressure relief vetoes, one on the A tope attuitions confing line, the second a temporarily lestaited vetoe on a section of A tope usual down confing breach piping. The vetoes are set to reteats at 435 paig and 475 paig, respectively:

No items of noncompliance or deviations were identified.

8. Containment Integrated Leak Rate Test (CILRT)

The CILRT and SIT combined test commenced on December 16, 1982, with 0 psig pressure data for the SIT being taken. Pressurization commenced on December 18, with full SIT test pressure (69.2 psig) reached on December 19. During this period, in support of Region V inspection personnel, the inspectors observed portions of data collection undertaken for the SIT.

Following the SIT the containment pressure was lowered to 41.8 psig for the 24 hours outgassing period at 41.8 psig (80 percent of Pa.). Following this period the containment was pressurized to greater than 49.2 psig, the design basis pressure (Pa) of the containment. The applicant's test director then opted, after T.W.G. approval, to do a short duration CILRT as permitted in the PSAR commitments for testing the containment. The test was conducted for eight hours with a verification test of 6 hours.

Following completion of test the inspectors examined the test log and the control room log. The logs presented a concise record of the activity during the test. No notations in the logs were inconsistent with the events of the test and were accurate as to the conduct. The inspectors toured the containment on January 3, 1983, to determine the condition of the building. There was no evidence at that time of conditions imposed by the test that caused any damage. Equipment was clean and had no appearance of residue from the compressors such as oil or moisture. Several penetrations were closely inspected and showed no damage from the pressurization.

The overall results of the test will be examined by Region V inspection personnel in another report. The CILRT preliminary results show a mass plot linear regression analysis of the leak rate of 0.0142 weight percent per day versus the acceptance criteria of 0.075 weight percent per day.

No items of noncompliance or deviations were identifies.

9. Tours

Several plant tours were conducted during the period. Housekeeping conditions within containment are very good as a result of the extended efforts expended to prepare the containment building for the structural integrity test and the ILRT. Cable pulling operations resulting from TMI-related modifications appear to be conducted in a proper manner. No instances of unauthorized work were observed and fire protection controls during welding were observed to be in place. Several instances of lock breakage have occurred in the past several months. The absence of equipment damage, led investigators to conclude entries were made for work purposes and the existence of the locks presented an inconvenience to those needing access to rooms or cabinets.

A review of selected chemistry results of the refueling water storage tank water and the condensate storage tank water confirmed limits were being maintained.

No items of noncompliance or deviations were identified.

10. Exit Meeting

An exit meeting was held January 21, 1983, with Messrs. J. R. Bynum, G. Pankonin, and members of the APS staff. The findings of the inspection were reported. The inspectors were updated on appropriate startup planning.