

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-397/84-28

Docket No. 50-397

License No. NPF-21

Licensee: Washington Public Power Supply System (WPPSS)
P. O. Box 968
Richland, Washington 99352

Facility Name: Washington Nuclear Project No. 2 (WNP-2)

Inspection at: WNP-2 Site, Benton County, Washington

Inspection conducted: October 9-12, 1984 and telephone conversations held on October 22 and 23, 1984.

Inspectors: Conrad L Sherman 10-24-84
C. I. Sherman, Radiation Specialist Date Signed

E. M. Garcia 10/24/84
E. M. Garcia, Radiation Specialist Date Signed

Approved By: G. P. Yuhas 10/25/84
G. P. Yuhas, Chief Date Signed
Reactor Radiation Protection Section

Summary:

Inspection on October 9-12 and October 22 and 23, 1984 (Report No. 50-397/84-28)

Areas Inspected: Routine announced startup inspection to examine implementation of TMI action items II.B.3 (PASS) and II.F.1-2 (Effluents) and followup on previous inspection findings. The inspection involved 44 hours onsite by two regionally based inspectors.

Results: Of the areas inspected, no violations or deviations were identified.

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DETAILS

1. Persons Contacted

- *D. Bennett, Radiochemist
- J. Bovington, Health Physicist
- *R. Greybeal, Health Physics/Chemistry Manager
- *J. Martin, Plant Manager, WNP-2
- *C. Powers, Assistant Plant Manager
- *V. Shockley, Health Physics/Chemistry Support Supervisor
- L. Berry, Health Physics Supervisor
- R. Hintz, Senior Health Physicist
- *W. Fitch, Executive Secretary, State of Washington, EFSEC
- *P. Powell, WNP-2 Licensing Manager
- R. Patrick, Plant Administrator
- D. Walker, Plant QA Manager
- D. Larson, Manager, Radiological Programs
- G. Bouchey, Director, Support Services

*Indicates those individuals attending the exit interview on October 12, 1984.

2. Licensee Action on Previous Inspection Findings

(Closed) (84-20-01): Inspector identified item involving training of chemistry technicians on operation of the PASS. The licensee has initiated training of additional individuals. This training will be completed prior to November 1, 1984. The licensee representative indicated the intent to place one qualified individual on each shift. The inspector had no further questions on this matter.

(Closed) (84-20-02): Open item regarding specificity for radiation protection instructions incorporated in PASS procedures. The licensee has prepared revisions to several chemistry procedures and agreed to make additional clarifications regarding matters raised by the inspector to assure that supervision retains adequate control over radiation protection decisions. The inspector examined procedure 12.10.9, 'Handling of Highly Radioactive Samples' which provides guidance in the area. In addition, a change is planned in the EPIP's to provide assignment of a dedicated health physics technician to the PASS team. The inspector had no further questions on this matter.

(Closed) (84-20-03): Open item regarding completion of PASS procedures for counting high activity samples. The licensee has revised chemistry procedure 12.10.11; procedure is in final stages of approval. Procedure 12.10.6 has not been revised, however, procedure 12.10.11 can be used to count high activity particulate and iodine samples from the PASS and plant effluent monitors.

(Closed) (84-20-04): Inspector identified item involving details of movement of high activity samples throughout the plant. The licensee prefers not to specify routes for sample movement in procedures, but rather to make these determinations as needed by using information maintained in the OSC. The inspector examined this information and

determined that it provides guidance for governing movement of personnel during accident conditions. The inspector had no further questions on this matter.

(Closed) (84-20-05): Inspector identified item to examine followup actions to a PASS drill evaluation. The licensee has taken action to address the majority of negative findings identified in Supply System Drill 84-4. The inspector had no further questions on this matter.

(Closed) (84-20-06): Open item regarding overall PASS capability. The inspector observed operation of this system including sampling and analysis of a reactor coolant sample and a containment atmosphere sample. Regarding these evolutions, the inspector made the following observations:

- ° The procedure developed provides adequate guidance to operate the PASS system.
- ° Remote handling tools, shielded sample containers and shielded storage areas are available.
- ° Analytical techniques provide for handling and processing of high activity samples.
- ° Analytical techniques were examined for Chloride and Boron, they appear to meet NRC guidance for sensitivity and accuracy of post accident sampling instrumentation.

Based on the results of this inspection and prior inspections of this area (50-397/83-23, -58, 84-07, -20) PASS capability and the PASS program are considered acceptable. The inspector had no further questions on this matter.

Several items not specifically identified by open item numbers were identified in NRC Inspection Report Number 50-397/84-07 regarding TMI action item II.F.1. The inspector examined these items and made the following observations:

- ° Actions regarding the high range noble gas monitor are considered complete. The licensee is in the process of revising correction factors for time dependent changes in the noble gas mixture (II.F.1-1, closed).
- ° The licensee has taken steps to improve remote handling of iodine and particulate samples and has developed a procedure for this operation, 12.10.10, 'Retrival of Elevated Release Duct Iodine Sample Cartridge' (II.F.1-2, closed).
- ° The licensee has completed preoperational testing and initial calibration of the containment high range monitor. In addition, an SAR change is being processed to reflect a change in instrumentation installed from that described in the FSAR (II.F.1-3, closed).

Based on this and previous inspections (50-397/83-58, 84-07, -20) action regarding TMI item II.F.1.1-3 is considered complete. The inspector had no further questions on this matter.

3. Independent Inspection

The inspector examined Design Change Package (DCP) 84-1203-0A, which removes a motor start signal for the control room essential filtration system fans from the control room air intake radiation monitor high-high alarm.

The licensee has experienced numerous starts of the control room essential filtration system due to induced signals in the radiation monitoring system. The NRC has received approximately 15 Licensee Event Reports associated with this condition. The licensee has not been able to prevent spurious actuation of the essential filtration system by other means. The licensee is taking additional steps to resolve this problem.

The inspector examined this DCP and applicable portions of technical specifications, regulatory guides, the FSAR and title 10 CFR to insure that this change was acceptable and that it did not impact safety. The inspector discussed this matter with licensee representatives subsequent to the inspection. The licensee's changes were considered acceptable.

No violations or deviations were identified.

4. Radiation Protection Training

The inspector attended a presentation of the short course, "General Radiation Orientation," a part of the general employee training. This course is only offered to those individuals with prior knowledge in the principals of radiation protection. The training consists of lectures supplemented by slides and a training manual. This course lasts approximately four hours and includes a multiple choice fifty question written examination. A score of 70% or better is required for passing. The training includes applicable portions of 10 CFR 19 and 20 and written and oral instructions on Regulatory Guides 8.13 "Instruction Concerning Prenatal Radiation Exposure," and 8.29 "Instructions Concerning Risks from Occupational Radiation Exposure." The course also includes instruction on response to warnings made in the event of an emergency. Based on this examination, the inspector concluded that individuals completing this training have received the training required by Part 19.12.

No violations or deviations were identified in this area.

5. Followup on IE Information Circulars

The inspector examined the documentation related to the licensee's review of IE Information Circular 81-09 "Containment Effluent Water that Bypasses Radioactivity Monitor." Using Final Safety Analysis Report (FSAR) Table 6.2-16 the licensee reviewed all containment penetrations and associated isolation functions. They determined that none of these lines would discharge directly to the environment. Four discharge paths

were identified that could lead to the Service Water System. However, the Service Water System is monitored for radiation prior to leaving the reactor building and this release path can be isolated. The licensee concluded that no further action was required.

No violations or deviations were identified in this area.

6. Exit Interview

An exit interview was conducted on October 12, 1984, individuals in attendance are identified in paragraph 1. The inspector summarized the scope and findings of the inspection at that time.

With respect to training of PASS operators, the licensee stated their commitment to complete training of additional operators by November 1, 1984.

With respect to deletion of the motor start signal for WMA-FN-54A&B from WOA-RIS-31A&B, the control room ESF supply fans and the control room ventilation radiation monitor respectively, the inspector discussed this matter with several licensee representatives subsequent to the inspection. The inspector concluded that the changes were permissible and did not violate any regulatory requirements.