U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-397/83-45

Docket No. 50-397 License No. CPPR-93 Safeguards Group

Licensee: Washington Public Power Supply System (WPPSS)

P. O. Box 968

Richland, Washington 99352

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

Inspection conducted: August 22-26, 1983

Inspectors: G P Yuhas 9/8/83
G. P. Yuhas, Radiation Specialist Date Signed

Approved by: F. A. Wenslawski 9/9/83
F. A. Wenslawski, Chief Date Signed
Radiological Safety Branch

Summary:

Inspection on August 22-26, 1983 (Report No. 50-397/83-45)

Areas Inspected: Routine, unannounced preoperational inspection of the licensee's radioactive waste management and radiological environmental monitoring programs including actions being taken to implement compliance with the 10 CFR 61.55 "Waste Classification." criteria. The licensee's actions in response to previously identified inspection findings were reviewed and extensive tours of the facility were performed. The inspection involved 26 hours on site by a regionally based inspector.

Results: Of the areas inspected, no items of noncompliance were identified.

DETAILS

1. Persons Contacted

*G. K. Affierbach, Assistant Plant Manager
*L. G. Berry, Health Physics Supervisor
C. A. Cauthon, Planner Scheduler
R. Craig, Supervisor Radiological Services
T. J. Froelich, Health Physicist
*R. G. Graybeal, Health Physics/Chemistry Manager
*D. E. Larson, Manager Radiological Programs
J. D. Martin, Plant Manager
L. L. Mayne, Health Physics/Chemistry Technician
*J. F. Peters, Plant Administrative Manager
J. K. Prince, Radiological Environmental Engineer
*D. H. Walker, Plant Quality Assurance Manager

*Indicates those individuals attending the exit interview on August 26, 1983.

2. Licensee Action on Previous Inspection Findings

(Closed) (83-32-02) inspector identified item involving determination of which Health Physics/Chemistry Technicians fully meet the ANSI/ANS-3.1 qualification requirements for chemistry. The Health Physics/Chemistry Manager performed a rigorous review of each technician's ability to independently meet the qualification requirements for health physics and chemistry. These evaluations were documented, concurred upon by the supervisors, and reviewed with each technician. The licensee concluded that eight technicians were fully qualified in both areas, 13 technicians were fully qualified in only health physics and 11 in only chemistry. The licensee representative stated that this information will be used in meeting the shift staffing requirements.

The inspector had no further questions regarding this matter.

3. Radioactive Waste Management

On August 24, 1983 the Plant Operations Committee approved administrative procedure PPM 1.12.1, "Radioactive Waste Management Program". Review of this procedure indicates the licensee has established a comprehensive vehicle which defines the scope and objectives of their radioactive waste program. The procedure assigns specific organizational responsibilities and establishes a Radwaste Program Leader who has overall responsibility for the technical management and coordination of the program. The procedure addresses:

- Process Control Program

- Operational Planning of Waste Processing and Administrative Control

- Modification Control and Safety Evaluation of System Design or Equipment Changes
- System Input Surveillance and Testing
- Effluent Control - Monitoring, Sampling, Analysis, Trending, and Release Limits
- Gaseous Waste Processing
- Liquid Waste Processing
- Solid Waste Processing
- Contract (Vendor) Radioactive Waste Processing
- System and Equipment Performance Monitoring
- Training
- Radioactive Waste System Operating Procedures
- Radioactive Waste Storage, Handling, and Shipping
- Technical Specifications Reporting Requirements
- Volume Reduction
- Ventilation System Testing and Operation
- Process Instrumentation and Controls
- Calibration of Effluent Monitors

PPM 1.12.1 also recognizes the new requirements being imposed with implementatation of 10 CFR 61. The licensee is aware of their waste classification responsibilities and is actively developing specific plans and procedures to assure compliance.

Based on discussions with the Planner Scheduler, of the 19 systems directly related to liquid, solid, and gaseous radioactive waste, one system has been preoperationally tested (Radwaste Building Ventilation), and one system was being tested (Reactor Building Ventilation). None of these systems have been released for operation.

The inspector and NRC Region V's Director, Division of Radiological Safety and Safeguards Programs and the Chief of the Radiological Safety Branch toured the containment structure, Reactor, Radwaste, Turbine, and Service buildings on August 23 and 24, 1983.

No items of noncompliance or deviations were observed in this area.

4. Radiological Environmental Monitoring

The inspector met with the Radiological Environmental Engineer to review the status of this program.

The Environmental Program Instructions (EPI) which provide specific procedures have not yet been reissued as Radiological Program Instructions (RPI). The licensee expects this to be accomplished by late September 1983. Based on review of a draft procedure (RPI 13.1.15 Land Use Census) the licensee was reminded that procedures should contain enough specificity to assure that Technical Specification requirements can be met.

The licensee has entered into an agreement with NUS Corporation, Environmental Services Division, to perform analyses during the next two years. The licensee has been provided copies of the NUS Quality Assurance Manual and operating procedures. From review of these documents it appears NUS is planning to utilize the concepts provided in USNRC Regulatory Guide 4.15. Review of sample analysis results indicated one minor anomaly which the licensee will investigate. This involved reporting of I-131 activity in vegetation.

The licensee's environmental thermoluminescent dosimetry (TLD) program has been previously inspected and documented in Inspection Report No. 50-397/82-30. One open item (82-30-01) regarding satisfaction of the criteria specified in Regulatory Guide 4.13 was discussed. The licensee presented a Teledyne report by Alan S. Klotz dated July 18, 1978 which shows the EB2 badge satisfied the criteria. The licensee also presented data from their participation in the Sixth International Environmental Dosimetry Intercomparison Project. This data indicated their TLD system performed very well.

Procedures for operating the TLD system have been written, reviewed and approved, however, not all have been typed and distributed in the accepted manner. A reorganization of Radiological Programs was in progress at the time of this inspection. One change resulted in assignment of a different Health Physicist to be responsible for the dosimetry program. This individual was not available during the inspection.

Maintenance and calibration records of environmental sampling and monitoring devices were reviewed. Station 211 was visited, and was found to be operating properly. From discussions with the licensee representative the inspector became aware of damage to two of the three Reuter-Stokes pressurized ion chambers that occurred during an electrical storm in September 1982. The licensee is evaluating the cause of this failure and offered to provide NRC details at the conclusion of their effort.

Due to personnel changes, and the number of procedures yet to be formally issued, this area will be reinspected prior to issuance of an operating license.

5. Exit Interview

The inspector met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on August 26, 1983. The inspector summarized the scope and findings of the inspection.