U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No.: 50-397/94-06

License No.: NPF-21

Licensee: Washington Public Power Supply System (WPPSS)
P.O. Box 968
3000 George Washington Way
Richland, Washington 99352

Facility Name: Washington Nuclear Project, Unit 2 (WNP-2)

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

Inspection Conducted: February 14 - 18, 1994

Inspector: Phillip Qualls 3/7/94
Phillip M. Qualls, Reactor Inspector — Date Signed

Approved by: Robert J. Pate 3/9/94
Robert J. Pate, Chief, Safeguards, Emergency Preparedness, and Non-Power Reactor Branch — Date Signed

Summary:

Areas Inspected: This routine inspection by a region-based inspector examined the following portions of the licensee's emergency preparedness program: Open Items and violations identified during previous emergency preparedness inspections; Plant Response to On-site Events; Protective Action Decision Making; Knowledge and Performance of Duties; Dose Calculation and Assessment; Shift Staffing and Augmentation; Notification and Communications; and Operational Status of the Emergency Preparedness Program were reviewed during this inspection. During this inspection, portions of Inspection Procedures 82202, 82203, 82205, 82206, 82207,82701, 92702, 93702 and 92701 were used.

Results: In the areas inspected, the licensee's emergency preparedness program appeared generally adequate to accomplish its objectives. The inspector noted that the licensee was taking actions in a number of Emergency Preparedness program areas to upgrade their program. The support provided by licensee management for this effort is considered a program strength.

INSPECTION DETAILS

1. Key Persons Contacted

H. L. Aeschliman, Emergency Planner
*G. O. Smith, Operations Division Manager
*J. A. Benjamin, Manager, Quality Assessment
N. L. Garza, Emergency Training
D. B. Holmes, Senior Emergency Planner
R. E. Jorgensen, Emergency Planner, Training
*D. E. Larson, Manager, Emergency Preparedness (EP)
*K. B. Lewis, Licensing Engineer
*M. J. Mann, Operations Manager, Assistant
*D. J. Schumann, Acting Manager, Operating Experience Assessment Review
*S. R. Telander, Manager, Support Services
R. L. Utter, Supervisor, EP Operations
*R. L. Webring, Technical Manager
G. Godfrey, Supervisor, Performance Evaluation
F. Quinn, Senior Emergency Planner

The above individuals denoted with an asterisk were present during the exit meeting on February 18, 1994. The inspector also contacted other members of the licensee's emergency preparedness, administrative, and technical staff during the course of the inspection.

NRC Personnel at Exit Interview

D. L. Proulx, Resident Inspector

2. Emergency Detection and Classification (MC 82201)

The emergency detection and classification scheme used by the licensee was reviewed. The licensee indicated that they had forwarded proposed Emergency Action Levels (EAL) based on the Nuclear Management and Resources Council (NUMARC) guidelines to the NRC for review and approval. Discussions between the inspector and the NRC program office indicated that the review may be accomplished before the end of April 1994. The licensee stated that implementation could be complete before January 1, 1995.

No violations or deviations were identified.

3. Protective Action Decision Making (MC 82202)

The inspector reviewed Emergency Plan Implementing Procedure PPM 13.5.5, Personnel Accountability. The inspector noted that the licensee directs that accountability be accomplished at an Alert or higher event classification. The procedure does not require evacuation of nonessential personnel or that nonessential personnel go to assembly areas to use security card readers to locate themselves. The current accountability procedure would only locate emergency response essential personnel at their respective emergency response facilities (ERFs). The inspector noted that under conditions which the Plant Emergency Director

(PED) directs accountability, with no evacuation, the list of names provided would list all nonessential personnel in the Protected Area (PA). This would not be adequate, under these conditions, to "ascertain the names of missing individuals", as directed by NRC guidance in NUREG 0654 II.J.5. The licensee and the inspector noted that accountability could be accomplished if the controlled PA evacuation procedure was also performed. The inspector interviewed a PED qualified member of the licensee's staff and that person was familiar with the procedures and recognized that evacuation would have to be preformed to accomplish accountability using current plant procedures. Licensee management indicate that these procedures would be reviewed as a part of the procedure review and upgrade currently in progress. The NRC will review the accountability procedure after the upgrades are complete. This item is OPEN (94-06-01).

No violations or deviations were identified.

4. Notifications and Communications (MC 82203)

The licensee has installed a new pager system for emergency contact with and call-out of Emergency Response Organization members. This system is supplemental and in addition to the Melita (Auto Dialer) Call-out system. The inspector reviewed data from the December 1, 1993, Unusual Event and the February 3, 1994, drill which indicated that the call-out system preformed satisfactorily.

The inspector reviewed the completed operability tests of the notification systems. The systems appear to be properly tested as required to verify continued operability.

The inspector also reviewed EPIP PPM 13.4.1, Notifications, and noted that the boilerplate message appears to be adequate and is communicated to the appropriate offsite authorities using diverse and redundant methods.

No violations or deviations were identified.

5. Shift Staffing and Augmentation (MC 82205)

On February 3, 1994, the licensee performed an off hours augmentations drill. The licensee was able to demonstrate that they could effectively notify their emergency response organization (ERO) and that all required positions could be staffed within one hour. The licensee is in the process of reconfiguring the ERO into five response teams to ensure that people are available and fit for duty for each ERO position. The inspector noted that this is an ambitious project and involves significant licensee resources and additional training. The licensee indicated that these teams should be in place prior to the September 1994 exercise.

No violations or deviations were identified.

6. Knowledge and Performance of Duties (MC 82206)

The inspector attended a training class for members of the ERO that respond to the EOF. The inspector noted that the instructor presented the information in clear concise manner. The instructor used visual training aids and had handouts for the participants. Two senior members of the ERO were interviewed by the inspector. Both were questioned concerning protective action recommendations, plant conditions, and event. Both were very knowledgeable about emergency response procedures and the duties of their respective positions.

No violations or deviations were identified.

7. Dose Calculation and Assessment (MC 82207)

The inspector reviewed the licensee's ability to perform radiological assessments. The licensee appeared to have adequate means to determine the source term. Discussions with licensee personnel indicated that, in addition to the licensee's data from the installed meteorological towers, the Supply System has access to the large amount of meteorological information available to the Department of Energy at the Hanford reservation. For dose projection the licensee currently uses a model called B-EDPS for B-Emergency Dose Projection System. The inspector noted that the system appeared to be menu driven and easy to use with results consistent with RASCAL. The inspector reviewed the training records for the ERO staff which would use the model and noted that training was being properly maintained. Licensee staff stated that a new model was being developed for them by Battelle Northwest Lab using RASCAL as the core. The new model will incorporate the revised 10 CFR 20 requirements and should be consistent with the NRC model. The inspector also noted that the licensee has acquired new computers to use for dose projection.

No violations or deviations were identified.

8. Operational Status of the Emergency Preparedness Program (MC 82701)

(1) Emergency Plan and Implementing Procedures

The inspector noted that there are 78 Emergency Plan Implementing Procedures (EPIPs) in effect at WNP-2. Each procedure and revision must currently be reviewed and approved by the Plant Operations Committee (POC). The licensee recognized that this number of procedures could burden the POC with details. The licensee stated that they have in progress a procedure upgrade program to rewrite, clarify, simplify, and consolidate their procedures.

(2) Emergency Facilities, Equipment, Instrumentation, and Supplies

The Emergency Operations Facility (EOF), Technical Support Center (TSC) and the Operations Support Center (OSC) were toured and

inspected, to include response equipment, instrument calibration, procedures, and supplies on hand. The inspector observed that the OSC has recently completed significant upgrading and restructuring. The inspector also noted that the TSC and EOF were in the process of being upgraded and restructured. The licensee indicated that they expected the process to be complete before the September 1994 exercise.

(3) Staffing

The inspector reviewed the staffing of the emergency preparedness organization onsite. The organization consists of a manager and twelve members of his staff. The staff appeared to be well qualified, highly trained, and motivated in their duties and responsibilities.

No violations or deviations were identified.

9. Follow up on Previous Inspection Findings (MC 92701)

a. 93-02-01 (Closed) Failure to Staff ERFs in One Hour (Exercise Weakness)

During the 1993 annual EP exercise, the inspector observed that the TSC staff manning achieved minimum complement 82 minutes after the declaration of an alert, which exceeded the 60 minute requirement of the Emergency Plan. The failure to meet minimum TSC staffing requirements in 60 minutes was identified as an exercise weakness. The last routine EP inspection at the site indicated that the licensee has upgraded the notification and call-out system. Documentation was provided indicating six call-out drills conducted since October 1992. On February 3, 1994, the licensee conducted a call-out drill and demonstrated the capability to staff emergency facilities with appropriate personnel within prescribed time limits. This drill was witnessed by the NRC Senior Resident Inspector. This item is CLOSED.

No violations or deviations were identified.

10. Follow-up on Violations and Deviations (MC 92702)

a. 93-44-02 (Closed) Data Circuits Testing

Monthly tests of the Data Circuits system (a communications system between emergency response facilities) which involved the D448 Carrier Systems (a portion of the Data Circuits) were discontinued in November 1992. Subsequent to that date the licensee relied upon continuous self-checking to check for system malfunctions. The computer terminals were not checked for operability as they are often turned off. The licensee has changed the test methodology to ensure that the entire system is tested. This item is CLOSED.

b. 93-44-01 (Closed) Missed TSC inventory

The licensee did not perform the third quarter inventory of the Technical Support Center (TSC) emergency lockers. This omission appeared to be a result of weaknesses in the Support Services Tracking System (SSTS) maintenance records system. Potential problems with the SSTS were indicated in past NRC inspection reports 92-05, dated March 20, 1992, Section 2.c.(2); and 92-17, dated June 8, 1992, Section 2.a.(2); and in Supply System Audits 92-596 and 93-611. The licensee demonstrated to the inspector that corrective action to address this programmatic weakness, the SSTS program (a D-Base IV PC application) has been incorporated into SMS (Scheduled Maintenance System), and then rolled over to PASSPORT. The scheduling is now input directly to PASSPORT. (PASSPORT is a system name indicating a centralized computer data system being implemented at the site.) This item is CLOSED.

No violations or deviations were identified.

11. Onsite Follow-up of Events at Operating Reactors (93702)

An Unusual Event (UE) was declared at WNP-2 on December 1, 1993. The inspector reviewed licensee documentation concerning the event which appeared to have been appropriately classified in accordance with the licensee's approved emergency plan. Licensee records indicate that all notifications of offsite agencies was accomplished within 15 minutes. The event response, for emergency planning purposes, appeared to be appropriate.

No violations or deviations were identified.

12. Exit Interview (MC 30703)

On February 18, 1994, at the conclusion of the site visit, the inspector met with the licensee representatives identified in paragraph 1 above to summarize the scope and the preliminary results of this inspection. The inspector indicated the open items and violations to be closed. The inspector noted that it appeared that site Emergency Preparedness was making significant improvements in a number of program areas including staffing, facilities, procedures and equipment. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspector during the inspection.