

ENCLOSURE

U.S. NUCLEAR REGULATORY COMMISSION  
REGION IV

Docket No.: 50-397  
License No.: NPF-21  
Report No.: 50-397/97-06  
Licensee: Washington Public Power Supply System  
Facility: Washington Nuclear Project-2  
Location: Richland, Washington  
Dates: May 19-23, 1997  
Inspector: Clifford A. Clark, Reactor Inspector, Maintenance Branch  
Approved By: Dr. Dale A. Powers, Chief, Maintenance Branch  
Division of Reactor Safety

ATTACHMENT: Supplemental Information

### EXECUTIVE SUMMARY

#### Washington Nuclear Project-2 NRC Inspection Report 50-397/97-06

This inspection consisted of a review of the licensee's planned and implemented activities associated with the inservice inspection program. The inspection report covers a 1-week period onsite, performed by one region-based inspector.

#### Maintenance

- The observed material condition of the facilities and equipment was good (Section M2).
- The implementation of the inservice inspection program was good (Section M3).
- The observed nondestructive examinations were performed in accordance with the appropriate procedures by knowledgeable contract personnel (Section M4).
- The licensee's 1995 technical assessment of the inservice inspection program activities was effective in identifying and resolving identified problems (Section M7).

## Report Details

### Summary of Plant Status

The plant was in Mode 5 for Refueling Outage R12.

## II. Maintenance

### **M2 Maintenance and Material Condition of Facilities and Equipment**

#### a. Inspection Scope (73753)

The inspector observed the material condition of the plant in various areas of the reactor, diesel generator, and turbine generator buildings to determine the effectiveness of the licensee's actions implemented to maintain the appropriate material condition on the plant.

#### b. Observations and Findings

During tours of various areas of the plant, the inspector noted the following:

- Locked open reactor core isolation cooling system Motor-Operated Valve RCIC-V-12 actuator limit switch compartment cover installation was missing one fastener assembly. The motor-operator valve engineer issued a work order to install the missing fastener assembly. Since power had been removed from the operator, the valve had been locked open and abandoned in place. The only time the valve had been manually operated was during outages for the convenience of performing maintenance on other areas of the system. The licensee representatives noted that the only safety function of Valve RCIC-V-12 was to provide a system pressure boundary, the same safety function that a piece of pipe would provide. The licensee representatives noted that there was no operational concerns.
- Other than the observation of the missing fastener assembly on Valve RCIC-V-12, the observed material condition of the facilities and equipment was good.

#### c. Conclusions

The licensee's actions implemented to maintain the appropriate material condition of the plant facilities observed were good.

### M3 Maintenance Procedures and Documentation

#### a. Inspection Scope (73753)

The inspector reviewed the inservice inspection documents, equipment records, and personnel certification records. The inspector also interviewed contract and licensee personnel.

#### b. Observations and Findings

The inservice inspection examinations were scheduled to be performed in Refueling Outage R12 in accordance with the ASME, Section XI, "WNP-2 Inservice Inspection Program Plan, Interval 2." This was the third inspection of the first 40-month period of the second 10-year interval. The inservice inspection program plan was written in accordance with the requirements of the 1989 Edition of Section XI of the ASME Boiler and Pressure Code, no addenda.

The inspector noted that an NRC review of Washington Nuclear Project-2 second 10-Year Interval Inservice Inspection Program Plan Relief Request 2ISI-15, had identified some questions. In March of 1997, the NRC notified the licensee that it appeared that several Category C-G welds in the discharge piping for the low pressure core spray, high pressure core spray, and residual heat removal pumps were incorrectly classified as inaccessible for inservice inspection. The NRC requested additional information on the subject welds. A licensee review of the subject welds agreed that some of the welds were accessible for examinations and the licensee issued Problem Evaluation Request 297-0316 to document the findings of their review. The requested NRC information was provided to the NRC in a licensee letter dated May 19, 1997. The inspector reviewed the May 19, 1997, letter and Problem Evaluation Request 297-0316, and found the licensee-identified information and implemented corrective actions appropriate. The inspector noted that the licensee had examined one of the residual heat removal pump welds and implemented actions to ensure that the remaining welds will be examined at a later date.

The inspector found that the documents (procedures, records, and reports) had been developed in accordance with licensee procedures, regulatory requirements, and applicable ASME Code requirements.

The inspector determined the contractor equipment and personnel certification records were complete and current. The various Refueling Outage R12 inservice inspection examination records available on May 22, 1997, were found to be complete (for the stage of development that they had undergone).

c. Conclusions

The inspector concluded that the inservice inspection procedures and records were adequate for the identified tasks. The inspector found the equipment and examiners were properly certified in accordance with ASME Code requirements.

**M4 Maintenance Staff Knowledge and Performance**

a. Inspection Scope (73753)

The inspector observed inservice inspection examinations and assessed the contract and licensee personnel knowledge and performance in this area.

b. Observations and Findings

As a result of the large number of inservice inspection activities accomplished earlier in the outage, there were a limited number of inservice inspection examinations available for inspector observation.

The inspector observed magnetic particle examinations performed by qualified nondestructive examination personnel on High Pressure Core Spray Piping Welds HPCS-P-1C-4, HPCS-P-1C-5, HPCS-P-1C-6, and HPCS-P-1N-3. The observed licensee and contract nondestructive examination personnel were knowledgeable of the applicable procedure instructions, examination methods, and performed the examinations in accordance with the procedure requirements.

c. Conclusions

The inspector concluded that the observed nondestructive examinations were performed in accordance with the appropriate procedure by knowledgeable contract and licensee personnel.

**M7 Quality Assurance in Maintenance Activities**

a. Inspection Scope (73753)

The inspector reviewed the latest licensee technical assessment of the inservice inspection program activities to evaluate the effectiveness of the licensee's controls in identifying, resolving, and preventing problems in the area of inservice inspection.

b. Observations and Findings

The inspector reviewed the inservice inspection assessment information documented in a 1995 Quality Assurance Technical Assessment Report 295-013, "Inservice Inspection and Inservice Testing Programs." The inspector also reviewed Problem Evaluation Request 295-0328, and associated corrective actions. Problem

Evaluation Request 295-0328 identified that the assessment found that the Washington Nuclear Project-2 inservice inspection program plans for the first and second inspection intervals did not contain a specific request for relief from Code requirements for residual heat removal pump casing weld examinations. This condition was evaluated as acceptable for the first inspection interval based on the preservice inspections performed and the NRC acceptance of the first interval inservice inspection program plan. The licensee submitted a relief request for the second interval inservice inspection program plan.

The inspector noted that the assessment identified some good findings, and that the licensee had taken appropriate corrective actions to resolve the negative findings and prevent similar problems in the inservice inspection program.

c. Conclusions

The inspector concluded that the reviewed assessment and corrective actions were effective in identifying and resolving identified problems in the inservice inspection program.

V. Management Meetings

**X1 Exit Meeting Summary**

The inspector presented the inspection results to members of licensee management at the conclusion of the inspection on May 23, 1997. The licensee personnel acknowledged the findings presented.

The inspector asked the licensee personnel whether any materials examined during the inspection should be considered proprietary. No proprietary information was identified.



## ATTACHMENT

### SUPPLEMENTAL INFORMATION

#### PARTIAL LIST OF PERSONS CONTACTED

##### Licensee

D. Atkinson, Manager, Quality Assurance  
P. Bemis, Vice President for Nuclear Operations  
B. Boyum, Manager, Engineering Programs  
P. Inserra, Manager, Licensing  
C. King, Supervisor, Materials and Welding  
B. Pfitzer, Engineer, Licensing  
D. Ramey, Engineer, Inservice Inspection  
G. Smith, Plant General Manager  
J. Swailes, General Manager, Engineering  
D. Welch, Supervisor, Nondestructive Examination Services

##### NRC

S. Boynton, Senior Resident Inspector  
G. Replogle, Resident Inspector

#### LIST OF INSPECTION PROCEDURES USED

IP 73753      Inservice Inspection

#### LIST OF DOCUMENTS REVIEWED

##### Procedures

EDP 4.4, "Preparation of Inservice Inspection Program Plans," Revision 7  
NOS-33, "Inservice Inspections," Revision 9  
NDE & I INSTRUCTION QCI 3-3, "Liquid Penetrant Examination - WNP-2," Revision 5  
NDE & I INSTRUCTION QCI 4-3, "Magnetic Particle Examination - WNP-2," Revision 6  
NDE & I INSTRUCTION QCI 7-1, "Visual Examination," Revision 6  
NDE & I INSTRUCTION QCI 7-3, "Visual Examination - Component Supports," Revision 4  
NDE & I INSTRUCTION QCI 12-8, "NDE Data Evaluation," Revision 4

UT-WNP2-106VO, "Procedure for Manual Ultrasonic Examination of Ferritic Piping,"  
Revision 0

Other Documents

"WNP-2 Inservice Inspection Plan, Interval 2 Program Plan," Revision O-E

"Inservice Inspection Outage Plan For Outage R12," Revision 1

"WNP-2, Operating Licensee NPF-21, Request for Additional Information Regarding Second  
10-Year Interval Inservice Inspection Program Relief 2ISI-15," G02-97-099, dated May 19,  
1997

Assessment

Assessment 295-013, "Inservice Inspection and Inservice Testing Programs," dated  
May 1, 1995

Contractor Equipment/Examiner Certifications

GE Nuclear Energy

Problem Evaluation Request

295-0328

297-0316



Washington Public Power Supply System -3-

E-Mail report to T. Boyce (THB)  
E-Mail report to NRR Event Tracking System (IPAS)  
E-Mail report to Document Control Desk (DOCDESK)  
E-Mail report to Richard Correia (RPC)  
E-Mail report to Frank Talbot (FXT)

bcc to DCD (IE01)

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