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SUBJECT: LER 90-008-00:on 900416,seismic monitoring instrumentation
 inadequate TS surveillance testing procedure. W/9 ltr.

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 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

Docket No. 50-397

May 10, 1990

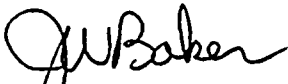
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Washington, D.C. 20555

Subject: NUCLEAR PLANT NO. 2
LICENSEE EVENT REPORT NO. 90-008

Dear Sir:

Transmitted herewith is Licensee Event Report No. 90-008 for the WNP-2 Plant. This report is submitted in response to the report requirements of 10CFR50.73 and discusses the items of reportability, corrective action taken, and action taken to preclude recurrence.

Very truly yours,



C. M. Powers (M/D 927M)
WNP-2 Plant Manager

CMP:lr

Enclosure:
Licensee Event Report No. 90-008

cc: Mr. John B. Martin, NRC - Region V
Mr. C. J. Bosted, NRC Site (M/D 901A)
INPO Records Center - Atlanta, GA
Ms. Dottie Sherman, ANI
Mr. D. L. Williams, BPA (M/D 399)

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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Washington Nuclear Plant - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 9 7				PAGE (3) 1 OF 03		
TITLE (4) Seismic Monitoring Instrumentation Inadequate Technical Specification Surveillance Testing Procedure																
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)						
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES				DOCKET NUMBER(S)			
0	4	16	90	008	00	05	10	90					0 5 0 0 0			
OPERATING MODE (9) 1			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)													
POWER LEVEL (10) 0 87			20.402(b)				20.406(c)				50.73(a)(2)(iv)				73.71(b)	
			20.406(a)(1)(i)				50.36(e)(1)				50.73(a)(2)(v)				73.71(c)	
			20.406(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)	
			20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)					
			20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)					
			20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)					
LICENSEE CONTACT FOR THIS LER (12)																
NAME C. L. Fies, Compliance Engineer										TELEPHONE NUMBER AREA CODE 5 09 3 17 7 - 2 5 0 1 E X T 2 0 3 9						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS						
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR		
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO						

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On April 16, 1990 a reportability evaluation was approved which documented the fact that one portion of the Triaxial Response Spectrum Recorder Transmitter (SEIS-RSRT-1) that is part of the Seismic Monitoring Instrumentation System had not been calibrated or tested as required by the Technical Specifications since July 1980.

The cause of this event was inadequate procedures. The surveillance procedure did not adequately cover the Technical Specification requirements.

Corrective action is being taken to calibrate the instrument and correct Plant Procedures to meet the requirement of the Technical Specifications.

The event posed no threat to the health and safety of either the public or plant personnel since a seismic event did not occur and adequate seismic instrumentation was available to monitor conditions in the unlikely event of an earthquake.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Washington Nuclear Plant - Unit 2	0 5 0 0 0 3 9 7	9 0	— 0 0 8	— 0 0	0	2	OF 0 3

TEXT (If more space is required, use additional NRC Form 368A's) (17)

Plant Conditions

Power Level - 87%
Plant Mode - 1

Event Description

On April 16, 1990 a reportability evaluation was approved which directed that an event discovered on February 27, 1990 be reported per 10CFR50.73. The evaluation, which was ongoing during March and April, concluded that thirteen of the lower frequency (2 to 4 Hertz) reeds (with stylus and electrical switch contacts) on the Seismic Monitoring System Triaxial Response Spectrum Recorder Transmitters (SEIS-RSRT-1/1, SEIS-RSRT-1/2 and SEIS-RSRT-1/3) had not been calibrated or tested since July 1980. The problem was discovered by a Plant Instrument and Control Engineer while reviewing the Technical Specification surveillance procedures. Each of the Response Spectrum Recorder Transmitters monitors the accelerations at twelve frequencies from 2 to 25 Hertz. The three instruments, which are located on the Reactor Building foundation mat, monitor motion in each of the three planes (Horizontal North-South, Horizontal East-West, and Vertical). Since each reed and stylus has two switch contacts, there are a total of seventy-two frequency sensitive stylus reeds with electrical switch contacts. The contacts close and actuate alarm lights in the Control Room on the Response Spectrum Annunciator (SEIS-RSA-1).

Immediate Corrective Action

Immediate corrective action was taken to request the vendor to provide a proper calibration of the instrument.

Further Evaluation and Corrective ActionA. Further Evaluation

1. This event is being reported in accordance with the requirements of 10CFR50.73(a)(2)(i)(B) as, "Any operation or condition prohibited by the plant's Technical Specifications." Specifically, the Technical Specifications (paragraph 3/4.3.7.2) state the Triaxial Response Spectrum Recorder for the Reactor Building floor (with reactor control room annunciation) shall be operable at all times. The surveillance requirement states this instrument shall be demonstrated operable by the performance of a channel check (at least once per 31 days), Channel Functional test (at least once per 184 days), and a channel calibration (at least once per 18 months). These surveillance requirements were not fully performed.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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Washington Nuclear Plant - Unit 2	0 5 0 0 0 3 9 7	9 0	0 0 8	0 0	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

2. The cause of this event was inadequate procedures. The surveillance procedure did not adequately cover the Technical Specification surveillance requirements for functional testing and calibration of the Triaxial Response Spectrum Recorder Transmitter.
3. There were no structures, components or systems that were inoperable prior to the start of this event which contributed to the event.

B. Further Corrective Action

1. The Triaxial Response Spectrum Recorder Transmitter (SEIS-RSRT-1/1, -1/2 and -1/3) switches (13 of the 72) that were not calibrated since July 1980 will be checked for the as found condition.
2. The Triaxial Response Spectrum Recorder Transmitter will also be calibrated at all frequency ranges during the present R5 maintenance and refueling outage.
3. Plant surveillance procedures will be changed to reflect the revised calibration.

Safety Significance

This event has no safety significance since no measurable seismic events have occurred at the plant. In addition, other seismic instrumentation was available to monitor conditions and alert the plant operators in the unlikely event of an earthquake. Consequently, there is a high probability that sufficient information would have been available to Plant Operators in the event of an earthquake.

Similar Events

There are no similar events caused by misinterpretation of seismic data.

EIIS InformationText ReferenceEIIS Reference

	System	Component
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Seismic Monitoring Instrumentation System

IN

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Triaxial Response Spectrum Recorder Transmitter (SEIS-RSRT-1)

IN

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Response Spectrum Annunciator (SEIS-RSA-1)

IN

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