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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-008-01:on 880318,determined that 11 plant TS fire -
 penetration seals discovered impaired.Caused by inadequate
 control of fire seal penetrations.Maint Work Requests
 written to repair penetrations.W/930212 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 6
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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February 12, 1993
602-93-035

Docket No. 50-397

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

**SUBJECT: NUCLEAR PLANT WNP-2
LICENSEE EVENT REPORT NO. 88-008-01**

Transmitted herewith is Licensee Event Report No. 88-008-01 for the WNP-2 Plant. This revised report is submitted in response to the requirements of 10CFR50.73. It discusses the cause of the event and provides an update of corrective actions taken. This information was not available for Revision 0 of the LER.

Sincerely,



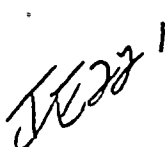
J. W. Baker
WNP-2 Plant Manager (Mail Drop 927M)

JWB/CLF/nw
Enclosure

cc: Mr. J. B. Martin, NRC - Region V
Mr. R. Barr, NRC Resident Inspector (Mail Drop 901A, 2 Copies)
INPO Records Center - Atlanta, GA
Mr. D. L. Williams, BPA (Mail Drop 399)

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LICENSEE EVENT REPORT (LER)

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TITLE (4)
**PLANT TECHNICAL SPECIFICATION FIRE PENETRATION SEALS DISCOVERED
 IMPAIRED/UNSEALED DURING ONGOING 100% INSPECTION**

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 NUMBERS (S)	
0	3	1	8	8	8	0	0	8	0	1		0 5 0 0 0
0	3	1	8	8	8	0	2	1	2	9	3	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)	1 0 0	<input type="checkbox"/> 20.402(b) <input type="checkbox"/> 20.405(a)(1)(i) <input type="checkbox"/> 20.405(a)(1)(ii) <input type="checkbox"/> 20.405(a)(1)(iii) <input type="checkbox"/> 20.405(a)(1)(iv) <input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 20.405(c) <input type="checkbox"/> 50.36(c)(1) <input type="checkbox"/> 50.36(c)(2) <input checked="" type="checkbox"/> 50.73(a)(2)(i) <input type="checkbox"/> 50.73(a)(2)(ii) <input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(iv) <input type="checkbox"/> 50.73(a)(2)(v) <input type="checkbox"/> 50.73(a)(2)(vii) <input type="checkbox"/> 50.73(a)(2)(viii)(A) <input type="checkbox"/> 50.73(a)(2)(viii)(B) <input type="checkbox"/> 50.73(a)(2)(x)	<input type="checkbox"/> 77.71(b) <input type="checkbox"/> 73.73(c) OTHER (Specify in Abstract below and in Text, NRC Form 366A)
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LICENSEE CONTACT FOR THIS LER (12)	
NAME CL Fies, Licensing Engineer	TELEPHONE NUMBER AREA CODE 5 0 9 3 7 7 - 4 1 4 7

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)
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	

ABSTRACT (16)

On March 23, 1988 and March 25, 1988, it was determined that problems documented (on March 18, 1988 and March 24, 1988) with regard to 11 Plant Technical Specification fire penetrations were reportable under 10CFR50.73 (a)(2)(i). The penetrations were impaired such that they would not qualify as a three-hour fire barrier. The penetrations are located in the Diesel Generator and Reactor Buildings.

The problems were identified during the performance of ongoing physical walkdowns of all accessible Technical Specification walls and penetrations as further corrective action committed to in LER 87-030.

As required by the Plant Technical Specifications, the penetrations were placed on an hourly fire tour. Further corrective actions include 1) preparing Maintenance Work Requests (MWRs) to repair/seal the penetrations, and 2) completing the 100 percent review of documentation and physical walkdowns of all accessible Technical Specification walls and penetrations.

The cause of this event was inadequate control of fire seal penetrations during the construction turnover process and an inadequate 100 percent walkdown of fire-rated assemblies performed in 1986.

It was determined that this event did not affect the health and safety of either the public or Plant personnel due to the fire protection design of the fire areas involved.

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TITLE (4) PLANT TECHNICAL SPECIFICATION FIRE PENETRATION SEALS DISCOVERED IMPAIRED/UNSEALED DURING ONGOING 100% INSPECTION					

Plant Conditions

Power Level - 100%

Plant Mode - 1 (Power Operation)

Event Description

On March 23, 1988 and March 25, 1988, the following problems which were documented with regard to Plant Technical Specification fire penetration seals were determined to be reportable under 10CFR50.73 (a)(2)(i).

a) On March 18, 1988, it was documented on a Plant Nonconformance Report that:

- Fire seal penetrations D101-3002 and D101-3003 (Diesel Generator Building - 441 Elevation) each had a nonapproved fire configuration type plug installed (holes had been drilled through the center and filled with "All Thread").
- Fire seal penetrations D102-3002 and D102-3003 (Diesel Generator Building - 441 Elevation) each had a nonapproved fire configuration type (nonferralloy) plug installed, and the penetrations were not listed in the Plant Seal Tracking System (PSTS) data base.
- Fire seal penetration D104-3063 (Diesel Generator Building - 441 Elevation) was impaired in that the seal depth was less than required.
- Fire seal penetration D113-2012 (Diesel Generator Building - 441 Elevation) was impaired in that it appears that a cable had been pulled through and the penetration not resealed.

b) On March 24, 1988, it was documented on a Plant Nonconformance Report that:

- Fire seal penetration R116-3003.9 (Reactor Building - 422 Elevation) was impaired in that it appears that a cable had been pulled through and the penetration not resealed.
- Fire seal penetration R116-3003.10 (Reactor Building - 422 Elevation) was impaired in that the plug had a drilled hole through its center, and the penetration was not listed in the PSTS data base.
- Fire seal penetration R116-3011.4 (Reactor Building - 444 Elevation) was impaired in that the seal depth was less than required.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION					
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- Fire seal penetration R116-3011.6 (Reactor Building - 444 Elevation) was impaired in that the plug had a drilled hole through its center, and the penetration was not listed in the PSTS data base.
- Fire seal penetration R410-4004.7 (Reactor Building - 522 Elevation) was impaired in that it appears that a cable had been pulled through and the penetration was resealed.

The problems were identified during the performance of ongoing activities associated with further corrective actions committed to in a previous LER (87-030, "Upgraded Plant Technical specification Fire Wall not Constructed to Qualify as a Three-Hour Fire Barrier and Wall Penetration not Sealed"). Specifically, the Supply System committed to perform a 100 percent review of documentation, and physical walkdowns of all accessible Technical specification walls and penetrations, to determine the adequacy of PSTS. The problems noted in this LER (88-008) were discovered during the ongoing physical walkdowns.

The cause of this event was inadequate control of fire seal penetrations during the construction turnover process and an inadequate 100 percent walkdown of fire-rated assemblies performed in 1986.

Immediate Corrective Action

As required by the Plant Technical Specifications, the penetrations were placed on an hourly fire tour.

Further Discussion and Corrective Action

a) Further Discussion

- Fire seal penetrations D101-3002, D101-3003, D102-3002 and D1023003 are located in Fire Area DG-V (1B Diesel Oil Tank Pump Room).
- Fire seal penetration D104-3063 is located in Fire Area DG-I (HPCS Diesel Generator).
- Fire seal penetration D113-2012 is located in Fire Area DG-III (1B Diesel Generator).
- Fire seal penetrations R116-3003.9, R116-3003.10, R116-3011.4 and R116-3011.6 are located in Fire Area R-IV (RHR Pump Room R1, Pipe Chase and RHR Heat Exchanger "B" Equipment Room).
- Fire seal penetration R410-4004.7 is located in Fire Area R-VIII (MCC Room Division 2).

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION											
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b) Further Corrective Actions

- Maintenance Work Requests (MWRs) were written to repair/seal the penetrations.
- The penetrations which were not previously included in the PSTS data base were added to the data base.
- The 100 percent review of documentation, and physical walkdowns of all Technical Specification walls and penetrations has been completed. Additional penetrations found in a degraded condition were repaired.

Safety Significance

Although there were no fires during the event period, the following is a description of the consequences had a Design Basis Fire had occurred in the areas described in this LER.

a) Fire Areas DG-I, DG-III and DG-V

Smoke from a fire would activate one or more smoke detectors, which would alarm in the Control Room. The fire brigade would be dispatched and take appropriate action in accordance with the prefire plans and emergency response procedures. Manual hoses are available.

The thermal detection system would sense a high heat condition and activate the preaction sprinkler system. Automatic spray heads would fuse and control the fire.

b) Fire Areas R-IV and R-VIII

Smoke from a fire would activate an ionization detector, which would alarm in the Control Room. The fire brigade would be dispatched and take appropriate action in accordance with the prefire plans and emergency response procedures. Manual hoses are available.

In addition, fire area R-IV has a low fire loading and, as a result, the probability of a fire spreading is considered remote.

Accordingly, this event did not affect the health and safety of either the public or Plant personnel.

Similar Events

LERs 82-028, 87-004-00, 87-004-00, 87-004-01 and 87-030.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION											
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IIIS Information

Text Reference

IIIS Reference
System Component

Fire Penetration Seals

D101-3002

D101-3003

D102-3002

D102-3003

D104-3063

D113-2012

R116-3003.9

R116-3003.10

R116-3011.4

R116-3011.6

R410-4004.7

Diesel Generator Bldg

Reactor Bldg

1B Diesel Oil Tank Pump Room

HPCS Diesel Generator

1B Diesel Generator

RHR Pump Room R1

RHR Heat Exchanger "B" Equipment Room

MCC Room, Division 2

KP

Pen

NB

Bldg

NG

Bldg

ME

Room

EK

Room

NB

Room

ME

Room

ME

Room

ME

Room