IAC Form 386 3-63)	LICENSEE EVEN	T REPORT (I	LER)		CLEAR REGULAT	0AY COMMISSION 0. 3160-0104
ACILITY NAME (1)			D		(2)	PAGE (3)
Washington Nuclear Plant -	Unit 2		0	15 0 0	0131917	1 OF 0
Potential flooding of Cont	rol Room and oth	or plant a	roas not	analyzo	d	
EVENT DATE (8) LER NUMBER (8)	REPORT DATE		OTHER F	ACILITIES INVO	LVED (8)	
AONTH DAY YEAR YEAR SEQUENTIAL NUMBER	NUMBER MONTH DAY	TEAR	FACILITY NAM		0 151010	
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MODE (9) 20.402(b)	PURSUANT TO THE REQUIREMEN	TE OF 10 CPH 3: ICA	50.73(a)(2)(lw)	the ronowing) (1	73.71(b)	
POWER 20.405(a)(1)(I)	60.36(a)(1)		50.73(a)(2)(v)		73.71(e)	
(10) 01 912 20.406(a)(1)(8)	50.36(e)(2)		50.73(a)(2)(vii)		below and	n Text, NRC Form
20.405(a)(1)(iii) 20.405(a)(1)(iv)	X 50.73(a)(2)(i) 60.73(a)(2)(ii)	H	50.73(a)(2)(viii)(A 80.73(a)(2)(viii)(B		366A/	
20.408(e)(1)(v)	60.734a)(2)(HI)		50.73(a)(2)(x)		Part	21
	LICENSEE CONTACT F	OR THIS LER (12)			TELEPHONE NUM	
NAME				AREA CODE	CELEPHONE NON	inden
S. L. Washington, Complia	nce Engineer			5 0 9	3 7 7 -	12151011
COMPLETE	NE LINE FOR EACH COMPONENT	AILURE DESCRIBED	IN THIS REPORT	(13)		
CAUSE SYSTEM COMPONENT MANUFAC-	TO NPRDS	CAUSE SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS	
	TAL REPORT EXPECTED (14)				MONT	H DAY YEAT
BOT COMM				EXPECT SUBMISS DATE (ED ION	
X YES (If yes, complete EXPECTED SUBMISSION DATE)	10/3/86 NO				11	0 013 8
An evaluation of the A/E of that 1) a flooding analys system added to the WNP-2 ments included only the Ro safety-related equipment. Control Room and activate plant areas containing sa evaluated for the effects This is also a special re	is was not conduc Control Room and eactor Building a Immediate corre an hourly fire w fety-related equi of flooding.	ted during 2) that t nd not oth ctive acti atch patro pment and	g the des the A/E f ner areas ons were ol. The flooding	ign of a looding of the taken t Control sources	wet-spr analyses plant tha o isolate Room and are bein	inkler require- at contai e the other
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LICENSEE EVI	NT REPORT	(LER) TEXT	CONTINUATION
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U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

FACILITY NAME (1) DOCKOT NUMBER (2)						LER NUMBER (6)						PAGE (3)							
										YE	AR			MBER		REVISION			
Washington Nuclear Plant - Unit 2		0	5	0	0	0	3	19	7	8	6	-	0	2 8	-	010	0 2	OF	0]

a) Power Level - 92%

b) Plant Mode - 1 - Plant Operation

Event

An NRC Fire Protection audit (WPBR-F-83-312) required the installation of seven automatic sprinklers in the Shift Manager's office, lunch room, bathroom, and janitor closet in the Control Room. The sprinkler design was not evaluated for flooding as part of the WNP-2 safe shutdown analysis. Each nozzle can provide sixty to seventy gpm and a flooding time of thirty minutes must be used in accordance with ANSI/ANS 58.2 - 1980. Only safety-related equipment areas located within the Reactor Building were evaluated for the effects of flooding. The Control Room is located in the Radwaste Building.

The lack of a flooding analysis for the Control Room was recognized by Generation Engineering on August 18, 1986 as a result of an NRC Fire Protection/Appendix R allegation inspection. This condition is considered reportable under 10CFR 50.73(a)(2)(ii)(A).

The cause of this event is an error in the A/E design control process which failed to perform the required analysis at the time the sprinklers were designed.

Immediate Corrective Action

The sprinkler line in the Control Room was isolated and the Control Room areas put on an hourly fire watch patrol with extinguishers placed into each areas as required by the Plant Technical Specifications.

Further Evaluation and Corrective Action

- O The piping and hanger design for the fire protection sprinkler system within the Control Room has been evaluated to ensure they are seismically designed and installed and therefore not subject to failure as a direct result of a seismic event. The automatic sprinkler heads have also been evaluated to insure that they are seismically qualified. Flooding analysis based on ANSI/ANS 58.2 - 1980 has been performed for all water sources in the Control Room. The analysis has shown that flooding can occur due to a pipe crack. Nuclear Engineering Standard Seven (NES-7) is being changed to permit shutdown from the remote shutdown room in the event of flooding and spraying in the Control Room.
- Areas outside the Reactor Building which contain safety-related equipment are being evaluated for the potential and consequences of flooding. A supplemental report containing the evaluation plan and schedule will be submitted by October 3, 1986.
- A letter will be transmitted to Burns and Roe Inc. to inform them of our 10CFR Part 21 determination and request their evaluation.

NRC Fr	Form 366A U.S. NUCLEAR REGULAT	ORY COMMISSIO
9-83)		
ACILI	LITY NAME (1) DOCKET NUMBER (2) LER NUMBER (6)	PAGE (3)
Was	NUMBER	3 050 3
	(If more space is required, use additional NRC Form 366A's) (17)	
Sat	afety Significance	
0	A flood in the Control Room due to a pipe crack could potentially result in t loss of Control Room equipment needed to shutdown the plant. Appropriate act are being implemented to shutdown the plant in the event of Control Room floo or wetting.	ions
0	A preliminary engineering evaluation of areas outside of the Reactor Building containing equipment essential to safe shutdown identified no potential flood conditions that could prevent safe shutdown of the plant.	ing
Sin	imiliar Reports	
LER	ER 84-07, LER 85-001, LER 85-023 and LER 86-027	



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

Docket No. 50-397

in

September 18, 1986

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

Subject: NUCLEAR PLANT NO. 2 LICENSEE EVENT REPORT NO. 86-028

Dear Sir:

Transmitted herewith is Licensee Event Report No. 86-028 for WNP-2 Plant. This report is submitted in response to the report requirements of 10CFR Part 21 and 10CFR 50.73 and discusses the item of reportability, corrective action taken, and action taken to preclude recurrence.

The IOCFR Part 21 verbal notification was made at 1350 hours on September 17, 1986.

Very truly yours, Jaker

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

CMP:db

Enclosure: Licensee Event Report No. 86-028

cc: Mr. John B. Martin, NRC - Region V Mr. R. T. Dodds, NRC - Site (901A) Ms. Dottie Sherman, ANI INPO Records Center - Atlanta, GA Mr. C. E. Revell, BPA (M/D 399)