REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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ACCESSION NBR:8906230244 DOC.DATE: 89/06/16 NOTARIZED: NO DOCKET # FACIL:50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397 AUTH.NAME AUTHOR AFFILIATION FULLER,R.E. Washington Public Power Supply System POWERS,C.M. Washington Public Power Supply System RECIP.NAME RECIPIENT AFFILIATION R

SUBJECT: LER 89-005-00:on 890311, multiple control rod drifts caused by momentary low scram air header pressure due to trips. W/8 ltr.

NOTES:

•	RECIPIENT ID CODE/NAME PD5 LA SAMWORTH,R	COPII LTTR 1 1	ES ENCL 1 1	RECIPIENT ID CODE/NAME PD5 PD	COPIES LTTR ENCL 1 1
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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Docket No. 50-397

June 16, 1989

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

Subject: NUCLEAR PLANT NO. 2 LICENSEE EVENT REPORT NO. 89-005

Dear Sir:

Transmitted herewith is Licensee Event Report No. 89-005 for the WNP-2 Plant. This report is submitted as an informational LER and discusses the corrective actions taken, and actions taken to preclude recurrence.

Very truly yours,

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

CMP:1g

Enclosure: Licensee Event Report No. 89-005

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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NRC Form 366A 19-831 LICENSEE EVENT REPO	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION								
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Abstract (continued)

The corrective action to prevent recurrence is to perform a design review of the MSL radiation monitor drawer. Other corrective actions include: 1) Abnormal Response procedures will be evaluated for consistency during periodic reviews; 2) management policy relative to half-scram resets will be clarified and appropriate procedures revised; 3) multiple rod drift related procedures will be modified to provide consistent direction, and 4) multiple rod drift scenarios will be included in the operator training program.

There was no safety significance associated with this event. Calculations indicate that no thermal limit was exceeded. All safety systems were functional if necessary.

Plant Conditions

- a) Power Level 78%
- b) Plant Mode 1 (Power Operation)

Event Description

On March 11, 1989, at 21:02 hours 34 of the 185 control rods drifted inward from one to seven notches due to low scram air header pressure. The low air header pressure occurred subsequent to a very rapid series of Reactor Protection System (RPS) half-scram trips and resets which occurred over a period of approximately 1 to 2 seconds. The driving signal for the rapid RPS trips and resets was the Channel "B" Main Steam Line (MSL) Radiation Monitor (MS-RIS-610B) rapidly cycling in and out of the trip and reset-to-normal condition coincident with a single RPS reset action.

The MSL radiation monitor MS-RIS-610B is a Radiation Indicating Switch (RIS). An inoperable trip of this switch causes: 1) a Main Steam Isolation Valve (MSIV) half isolation trip on Channel "B"; 2) trip of the "B" Gland Steam Exhauster; and 3) a RPS Trip System "B" half-scram. This switch has automatic 'reset-to-normal capability when the incoming signal that causes the switch to trip returns to within the trip setpoints. However, the MSIV half isolation trip and RPS half-scram each require a manual reset. The "B" Gland Steam Exhauster trip is cleared with reset of the MSIV half isolation trip.

The same MSL radiation monitor had undergone a similar trip/reset-to-normal cycling a few hours earlier at 1813 hours. The Reactor Operator, within a few seconds of the RPS Trip System "B" half-scram trip, attempted to reset the half-scram. Operators subsequently heard the RPS relays (K14) cycle rapidly between the energized and deenergized state before the half-scram was reset-to-normal.

The MSL radiation monitor stabilized and Maintenance Technicians were requested to trouble-shoot the MSL radiation monitor drawer. Trouble-shooting activities were delayed since Technicians more knowledgeable on the radiation monitor instrumentation were due in at shift turnover, at approximately 22:30 hours.

NRC Form 386A U.S. NUCLEAR REGULATORY COMMA APPROVED OMB NO. 3150-010- EXPIRES: 8/31/88 FACILITY NAME (1) DOCKET NUMBER (2) LER NUMBER (6) PAGE (3) Washington Nuclear Plant - Unit 2 0 [5 [0 [0 [0]3]9 [7 8]9 - 0 [0 5 - 0 [0 0]3 0F 1 TEXT (If more space is required, use additional NRC Form 366A's) (17) At 21:01:47 a rapid series of trip/reset-to-normal cycles occurred, initiating another overall period of MSL radiation monitor inoperable instability. This				
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At 21:01:47 a rapid series of	radiation monitor i sted approximately 12	inoperable instabilit	tv. This	

- There were six distinct periods within the event in which the MSL radiation monitor experienced rapid cycling and/or was stabilized in the tripped condition. It was during the first period of cycling that multiple control rod drift indications were observed. The control rod drift event is described as follows.
 - 21:01:47.3 A RPS Trip System "B" half-scram occurred due to an inoperable trip on MS-RIS-610B. As a result, the 185 Control Rod Drive (CRD) scram air pilot valves (CRD-SPV-118), one on each Hydraulic Control Unit (HCU), moved to their scram position. This was the beginning the first period of the MS-RIS-610B instability.

The RPS scram contactor (K14 relay) de-energizes when the radiation monitor trips. The RPS reset pushbutton re-energizes the scram contactor when no trip signal exists. While the reset pushbutton is depressed, the tripping and resetting of the radiation monitor also cycles the scram contactor. Cycling of the scram contactor cycles the CRD scram air pilot valve (CRD-SPV-118) on each HCU. See Figure 1 for piping schematic of the scram pilot valves and the scram valves for one HCU in the normal operation configuration and Figure 2 for the RPS Trip System "B" half-scram configuration. Energizing the CRD-SPV-118 to the vent position vents a small portion of the instrument air piping between the scram air pilot valves (CRD-SPV-117 and CRD-SPV-118) to atmosphere. While the solenoid valve is rapidly changing position, a scram air header vent path is also established for a short time.

21:01:54 A scram air header high pressure alarm occurred.

NOTE: Historically, a high pressure alarm has occurred on the scram air header following a RPS Trip System "B" half-scram actuation. The high pressure response of the scram air header was attributed to air leaks in the HCUs, and regulator overshoot on a half-scram trip. This was concluded to have no effect on the rod drift event.

- 21:01:57.5 RPS Trip System "B" half-scram reset-to-normal was recorded. While the RPS reset pushbuttons were depressed for 1 to 2 seconds, the scram pilot valves cycled due to the radiation monitor drawer repeated trip and reset.
- 21:01:58.3 The high pressure scram air header alarm cleared and a low pressure alarm occurred. Between 21:01:57.5 and this point in time, a total of 13 trip/reset-to-normal cycles were recorded for MS-RIS-610B.

NRC Form 366A (9-83)	LICENSEE EVENT REPOR	BT (LEB) TEXT CONTINU		S. NUCLEAR REGULATORY COMMISSION
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21:02:00		to-normal which was \ total of 15 tri)1:57.5.	the end of th p/reset-to-nom	e first period of mal cycles were
21:02:00		occurred at this time ad occurred and saw	e. The operat several rod dr	or was aware that rift indications.
later ev drift ev	radiation monitor had fi B" half-scram was reset-to vents did not affect the vents because the scram w he MS-RIS-610B cycling.	o-normal following ea rod drift event or	ich of the fou result in ar	r periods. These additional rod
21:02:04	.3 . The scram air heade	er low pressure alarm	cleared.	
21:03:53	.7 The MS-RIS-610B sw inoperable trip.	itch was placed in	"standby", thu	is sealing in the
Immediat	e Corrective Action	•		-
The foll immediat	owing is a chronological ely after placing the MS-R	description of the IS-610B switch in "S	events and c TANDBY".	orrective actions
21:05	The Plant Operators re control rod status was b	viewed the applicab egun by the Shift Te	le procedures chnical Adviso	. Assessment of or.
21:08	The Shift Manager order Reactor Operator confirm positions.	red a reduction in ned that a large num	power from 7 ber of rods v	78% to 75%. The were at incorrect
21:15	Based on input from a P Plant power reduced 10%.	Plant Nuclear Engine	er, the Shift	; Manager ordered
21:21	Reactor power was at 72 initiated at this point.	2.1%. A core perfor	mance monitor	calculation was
21:25	Reactor power was at 65. was initiated at this po	6%. A second core int.	performance mo	nitor calculation
21:30	The core performance of completed. Review of c all thermal limits ex indicated 63 nodes had e peak of 1.5 kw/ft.	ore performance edi (isted. Review of	ts indicated a fuel preco	a wide margin to nditioning edits
21:35	The core performance completed. Review of e over the preconditioning further input from a P core power reduced to 35%	dits indicated ther envelope, up to a p lant Nuclear Enginee	e were only eak of 0.67 kw er. the Shift	four nodes still w/ft. Based upon

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RC Form 366A			U.S. NUCLEAR REGULATORY COMMISSION
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22:	:30	Reactor power was at 47.3%. A core monitor determined a wide margin (at least 16%) to all throughout the event, and that the highest power n the fuel preconditioning envelope. There were damage. Work had begun to recalibrate the high- setpoint of MS-RIS-610B.	thermal limits existed node was 2.1 kw/ft above no signs of fuel clad
22:	:45	Reactor power was at 36.5%. Plant Operators initi rod pattern.	iated restoration of the
22:	:54	MS-RIS-610B was returned to normal operation follow	ing recalibration.
23:	:47	Reactor power was at 36%. The appropriate control to rated power was reestablished. Reactor power in	rod pattern for return crease was started.
<u>3-1</u>	2-89	•	
02:	14	Reactor power was at 78%.	·
Fur	ther	Evaluation and Corrective Actions	•
Α.	Fur	ther Evaluation	
	1.	This event was determined to be nonreportable for t	he following reasons.
		a. There were no Technical Specification limi following the rod drift event.	ts exceeded during or
	,	b. The rod drift event did not result in condition the design basis or safety analysis envelog integrity of the plant safety barriers we degraded.	pe of the plant. The
		c. All safety systems were functional to perform in the event any would have been needed.	their intended function
	2.	The cause of the Channel "B" MSL high radiation mo (MS-RIS-610B) was the "High Voltage Low" trip setp to equal the normal high voltage operating value. is a reset/set flip-flop, the condition "equal Therefore, a high voltage just equal to the trip se trip/reset-to-normal cycling to occur. A detaile trip inputs determined the possibility of this ty likely to happen from other similar input trip hysteresis of the trip logic, i.e., the dead b between the trip/reset-to-normal values is not zero.	oint had drifted upward Since the logic circuit to" is indeterminate. Etpoint causes the rapid of review of other RPS ype of failure is less ps due to the design and or the difference

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Washington Nuclear Plant - Unit 2 TEXT (If more space is required, use additional NRC Form 366A's) (17)	0 5 0 0 0 3 9 7	8 9 - 0 10 15	- 010	0 6 0f	1 0	

The cause of the rod drift event was the rapid cycling of the RPS relays/solenoids during the period of time the RPS reset pushbuttons were depressed, thus allowing the scram air header (local effect only) to vent to atmosphere.

- 3. The root causes of the rod drift event include: 1) a design deficiency in that the MSL radiation monitor inoperable trip circuitry did not anticipate the trip/reset-to-normal cycling problem associated with voltages equal to the trip setpoints and 2) the Plant procedure lacked specific guidance regarding necessary actions to be taken when the underlying cause of abnormal operation of a safety related device is indeterminate.
 - a. The problem was not anticipated in that the MSL radiation monitor inoperable trip is the only RPS trip signal in which the design values for trip and automatic reset are equal. Had the monitor been designed such that the trip/reset values were different, as is the case with the other monitors, e.g., intermediate range monitors, the rapid trip/reset-to-normal cycles would have been avoided.
 - b. The Reactor Operator assessment and immediate response to the first inoperable trip of the radiation monitor was appropriate. Specifically, the cause or source of the trip was identified to be the MS-RIS-610B, the inoperable trip condition had cleared, the process variable indications were normal compared to redundant equipment, the trip circuitry was functional, and the RPS half-scram was able to be reset. Appropriate subsequent actions were taken by the Shift Manager which included initiating a Problem Evaluation Request (PER) per Plant procedures and requesting trouble-shooting for the underlying cause of the radiation monitor inoperable trip.

When the second radiation monitor inoperable trip occurred, the underlying cause of the first trip had not been identified and corrected. The Reactor Operator response to the second trip was similar to the first and appropriate per the existing procedures. However, the Plant Abnormal Response procedures lacked specific guidance regarding appropriate response to subsequent abnormal operation of an inservice safety related device that has previously undergone abnormal operation and the underlying cause of the abnormality remains indeterminate.

4. The operational event was reviewed and analyzed to determine the best operational response to the event. It was determined that upon receipt of initial indication of any rod drift, the direction is to immediately reduce total core flow to 45% of rated within 30 seconds. This core flow represents a condition where even for extremely limiting control rod patterns, the power distribution would not violate either fuel thermal limits or fuel preconditioning guidelines. This was determined to provide acceptable compensation for the worst case event. If a complete loss of scram air header pressure is indicated, or if more than one control rod continues to drift in, direction is given to manually scram the reactor.

: Form 366A 3)		LICENSEE EVENT REPOR	RT (LER) TEXT CONTINU		GULATORY COMMISS OMB NO, 3150-0104 I/88				
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		-							
	5.	The previous training of a single rod during		involved only the inw	vard drift				
of a single rod during simulated startups. B. <u>Further Corrective Action</u> l. Evaluate a design change of the MSL radiation monitor drawer which would preclude rapid trip/reset output signals from being generated.									
	1.	Evaluate a design change of the MSL radiation monitor drawer which would preclude rapid trip/reset output signals from being generated.							
ų	2.	resets. Their expectat	lude rapid trip/reset output signals from being generat gement has evaluated the current practice related ts. Their expectations will be communicated to the Li appropriate procedures revised.						
	3.	All, Abnormal Response p to minimize ambiguity a			ic reviews				
	4.	All procedures related modified to provide con		ifts have been ident	ified and				
5	5.	Multiple rod drift sce simulator training prog		uded in the licensed	Operator				
Safe	ety S	ignificance -							
that	the the	no safety significance rmal limits were not exce at less than a half cycl	eeded. Calculations,	performed for a read	ctor power				

indicated that fuel power conditions might have reached or slightly exceeded Technical Specification thermal limits. Slightly exceeding thermal limits is not safety significant provided timely action is taken to restore the Plant to acceptable conditions. Technical Specification Safety Limits would not have been exceeded. For greater than half cycle burnups, no thermal limits would be exceeded. This event occurred near the end of the fuel cycle.

All safety systems were functional in the event cladding damage occurred. Had either immediate or latent cladding damage occurred, the Division I MSL radiation monitors were available to complete the RPS scram signal input if radiation levels exceeded trip setpoints. The MS-RIS-610B had been placed in "STANDBY", which sealed in a Division II half-scram. Also, Offgas System isolation capability was available to ensure against excessive radionuclide release to the environment in the unlikely event radiation levels exceeded preestablished setpoints from fuel failure. The administrative limits imposed by the WNP-2 Technical Specifications would also have prevented sustained plant operation at elevated radionuclide release rates. Therefore, this event posed no threat to the health and safety of the public or plant personnel.

Similar Events

None

NRC Form 366A (9-83) LICENSEE EVENT REPOR	RT (LER) TEXT CONTINU		NUCLEAR REGULATORY COMMISSION APPROVED OMB NO, 3150-0104 EXPIRES: 8/31/88
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Control Rod Drive System (Scram Va	lve, 185 each CRD-V-1	26) AA	
Control Rod Drive System (Scram Va	lve, 185 each CRD-V-1	27) AA	
Main Steam System (Radiation Monit	or, MSL-RIS-610B)	SB	MON
Reactor Protection System			
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