

CATEGORY

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9704150215 DOC. DATE: 97/04/09 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
 AUTH. NAME AUTHOR AFFILIATION
 PARRISH, J.V. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 MERSCHOFF, E.W. Region 4 (Post 820201)

SUBJECT: RO: on 970327, reactor scrambled. Evaluation results, conclusions
 & corrective actions will be shared w/NRC prior to plant
 startup from maint & refueling outage.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 3
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	PD4-2 PD	1	COLBURN, T	1
INTERNAL:	ACRS	1	AEOD/SPD/RRAB	2
	AEOD/SPD/RRAB	1	<u>FILE CENTER</u>	1
	NRR/DE/ECGB	1	NRR/DE/EELB	1
	NRR/DE/EMEB	1	NRR/DRCH/HHFB	1
	NRR/DRCH/HICB	1	NRR/DRCH/HOLB	1
	NRR/DRCH/HQMB	1	NRR/DRPM/PECB	1
	NRR/DSSA/SPLB	1	NRR/DSSA/SRXB	1
	RES/DET/EIB	1	RGN4 FILE 01	1
EXTERNAL:	L ST LOBBY WARD	1	LITCO BRYCE, J H	1
	NOAC POORE, W.	1	NOAC QUEENER, DS	1
	NRC PDR	1	NUDOCS FULL TXT	1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE. TO HAVE YOUR NAME OR ORGANIZATION REMOVED FROM DISTRIBUTION LISTS
 OR REDUCE THE NUMBER OF COPIES RECEIVED BY YOU OR YOUR ORGANIZATION, CONTACT THE DOCUMENT CONTROL
 DESK (DCD) ON EXTENSION 415-2083

TOTAL NUMBER OF COPIES REQUIRED: LTR 25 ENCL 62

C
A
T
E
G
O
R
Y

1

D
O
C
U
M
E
N
T



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • Richland, Washington 99352-0968

April 9, 1997
GO2-97-068

Docket No. 50-397

Mr. E.W. Merschoff
NRC Regional Administrator
U.S. NRC, Region IV
611 Ryan Plaza Drive
Arlington, Texas 76011-8064

Gentlemen:

Subject: **WNP-2, OPERATING LICENSE NPF-21
EVALUATION OF MARCH 27, 1997 REACTOR SCRAM**

During testing of the Adjustable Speed Drive (ASD) control system on March 27, 1997 a planned trip of a single main feedwater pump was initiated from approximately 97% reactor power. As expected, a runback of the two recirculation pump to approximately 27 hertz was observed as the ASD control system responded to the loss of one main feedwater pump condition. Subsequently, an unplanned additional recirculation pump speed runback to approximately 15 hertz occurred, per design, when a cavitation interlock condition of less than 9.9 degrees Fahrenheit difference between the recirculation pump suction and reactor steam line existed for greater than 15 seconds. The second recirculation pump speed reduction to 15 hertz resulted in the plant entering Region A of the power-to-flow map. Although stable, non-oscillatory core power conditions were observed at all times during this transient, a manual reactor scram was inserted by control room personnel in accordance with Technical Specification 3.4.1 requirements for entry into Region A.

Subsequent to the event, several discussions were held between Supply System personnel and NRC staff concerning the details of the testing and resultant manual reactor scram. On April 3, 1997, during discussions with Region IV senior management, the Supply System committed to provide the results of an evaluation into the events surrounding the March 27, 1997, reactor scram. The details of the evaluation, the conclusions reached, and any corrective actions planned will be shared with the NRC prior to plant startup from the spring 1997 maintenance and refueling outage. Additional details of the planned Supply System activities are provided herein.

9704150215 970409
PDR ADDCK 05000397
P PDR



IE 2/10

EVALUATION OF MARCH 27, 1997 REACTOR SCRAM

The Supply System evaluation will be conducted by two separate evaluation teams. An event evaluation team, composed primarily of Supply System personnel, will investigate the event with the results and conclusions presented to plant management. Additionally, a second independent evaluation team made up primarily of non-Supply System personnel will evaluate the event, including performing a critical review of the investigation conducted by the event evaluation team. This independent evaluation team will provide the results of their review to Supply System senior management. The results of both of these evaluations will be made available to the NRC for review prior to restart of WNP-2.

The specific areas to be evaluated by these teams are:

- the analytical results of the testing performed on March 27, 1997
- the performance of the on-shift operations personnel leading up to, during, and immediately following the manual reactor scram on March 27, 1997
- the performance of the ASD and digital feedwater systems during the testing on March 27, 1997
- the adequacy of the design integration for installation of the reactor power uprate, ASD, and digital feedwater modifications
- the adequacy of the ASD and digital feedwater test procedure as it relates to the conditions surrounding the reactor scram on March 27, 1997.

The overriding purpose of the above defined reviews is to ensure the Supply System has a thorough understanding of the events surrounding the March 27, 1997, reactor scram, and through this understanding development of any needed corrective actions. The schedule for implementation of any identified corrective actions will be based on the significance of the findings and importance to plant safety. In addition, several modifications to the ASD logic are planned to improve the system performance. The results of the evaluations described above will be factored into the development of the planned modifications to determine what, if any, additional plant testing is required or desirable.

The schedule for completion of the above activities is as follows:

- event evaluation team completion - May 9, 1997
- independent evaluation team completion - May 16, 1997.

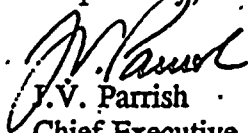
Page 3

EVALUATION OF MARCH 27, 1997 REACTOR SCRAM

In order to provide the NRC with an adequate opportunity to evaluate the details of the event and the conclusions reached by the Supply System prior to a joint meeting, the Supply System proposes a meeting during either the week of May 27 or the week of June 2, 1997. This meeting will allow a critical exchange of information, questions, and ideas prior to the planned completion of the WNP-2 maintenance and refueling outage on June 17, 1997.

Should you have any questions or desire additional information on this matter please contact me or D. A. Swank at (509) 377-4563.

Respectfully,



J. V. Parrish
Chief Executive Officer
Mail Drop 1023

DAS/lm

cc: KE Perkins, Jr. - NRC RIV, Walnut Creek Field Office
TG Colburn - NRR
NRC Sr. Resident Inspector - 927N
DL Williams - BPA/399
PD Robinson - Winston & Strawn
Document Control Desk - NRC

