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ACCESSION NBR: 8707150269 DOC. DATE: 87/07/06 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
 AUTH. NAME AUTHOR AFFILIATION
 MARTIN, J. B. Region 5, Office of Director
 RECIP. NAME RECIPIENT AFFILIATION
 MAZUR, D. W. Washington Public Power Supply System

SUBJECT: Confirmation of action ltr re agreement not to startup
 facility until assessment of plant readiness for restart
 completed, per 870706 telcon. NRC concerns re scrams & other
 occurrences during startup from refueling outage encl.

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EXTERNAL:	LPDR	1 1	NRC PDR	1 1
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JUL 6 1987

Docket No. 50-397
License No. NPF-21

CONFIRMATORY ACTION LETTER

Washington Public Power Supply System
P. O. Box 968
Richland, Washington 99352

Attention: Mr. D. W. Mazur
Managing Director

Gentlemen:

This letter confirms the discussion with you on July 6, 1987, in which I expressed concern regarding the large number of scrams and other occurrences experienced by your WNP-2 facility during startup from its second refueling outage, including those items identified in the enclosure to this letter. In particular, concern was expressed regarding the WNP-2 staff's apparent willingness to proceed with plant operation without fully understanding the cause of the events, some of which were then repeated.

During our discussion, you agreed not to restart the WNP-2 plant until an assessment of plant readiness for restart is completed. It is our understanding that this assessment and your related actions will include but not be limited to the following:

1. An evaluation of the effectiveness of your post-trip review and root cause assessment programs, with particular emphasis on your staff's apparent willingness to proceed with plant operation without fully understanding the cause of problems encountered.
2. A reevaluation of the root cause analyses of problems encountered during your current startup program, including but not limited to those identified in the enclosure.
3. An assessment of major work items accomplished during the recent refueling outage to assure the readiness of plant components, particularly electrical systems, for continued plant operation.
4. Discussions with members of your plant staff regarding the implementation of your root cause analysis program, particularly including steps to be taken following equipment failures to ensure that potential cause factors are not disturbed before the cause of failure is clearly determined.
5. Following your assessment, and prior to plant startup, a meeting between Supply System, Region V, and other appropriate NRC management to discuss your findings from the above items as well as other actions being taken to ensure a satisfactory resumption of power operation.

8707150269 870706
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JUL 6 1987

If our understanding concerning your proposed actions, as summarized above, is not correct, you should promptly notify this office in writing.

Original Signed

J. B. Martin
Regional Administrator

cc:

C. M. Powers, WPPSS
W. G. Conn, Burns & Roe, Inc
N. S. Reynolds, Esq.; BLCP&R
State of Washington

COPY REQUESTED

YES/NO

☒ YES/NO

☒ YES/NO

☒ YES/NO

☒ YES/NO

☒ YES/NO

PDR

☒ YES/NO

REGION V

CCaldwell

7/1/87

PJK
PJohnson

7/6/87

BD
BDodds

7/6/87

K
DKirsch

7/6/87

BF
BFaulkenberry

7/6/87

JM
JMartin

7/6/87

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A. Johnson
7/7/87

bcc:

J. Taylor, EDO

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R. Samworth, NRR

W. Lanning, NRR

D. Kirsch

A. Chaffee

P. Johnson

A. Johnson

R. Dodds

C. Caldwell

RSB/Document Control Desk (RIDS) (IE36)

J. Lieberman, OE

Enclosure:

As stated

ENCLOSURE 1

EVENTS AND DIFFICULTIES EXPERIENCED DURING WNP-2 RESTART

FROM SECOND REFUELING OUTAGE, JUNE/JULY 1987

<u>Date</u>	<u>Description</u>	<u>Resolution</u>
6/20/87	Licensee found two instruments improperly isolated (containment pressure signals to TDAS and recirc flow control lockup)	Realigned and verified (also see 6/29 event)
6/25/87 through 6/29/87	Recurring inoperability of the traversing in-core probe (TIP) indexer	Initially concluded to be baseplate alignment; realigned baseplate and proceeded with plant operation. Subsequently found drive gear alignment to also be affected.
6/26/87	Reactor trip from 42% -- generator trip on actuation of sudden-pressure relay on auxiliary transformer N1	BPA informed Supply System that there was evidence of combustibles in the oil/gas samples when compared with the test results of last year's samples. Licensee's conclusion - problem with aux transformer. Restarted with transformer N1 off-line. However, cause of event not fully understood.
6/27/87	Reactor trip from 55% -- generator trip on actuation of sudden-pressure relay on auxiliary transformer N2	Inspected, concluded that test devices had been left in place during outage. After restart, found that actuation points of the test devices on transformer N1 and N2 were low and cover gas pressure had recently been increased (time of device installation uncertain).
6/28/87	Reactor trip from 60% -- half scram condition in for repair of turbine control valve fast closure pressure switch due to major hydraulic oil leak. Power lost to opposite bus of reactor protection system	Licensee concluded that the plunger in the undervoltage relay of a breaker in "A" RPS channel did not operate properly. Cleaned device and bench tested. Inspected similar devices. Precise cause of event not certain.

ENCLOSURE 1 (Continued)

<u>Date</u>	<u>Description</u>	<u>Resolution</u>
6/29/87	Another instrument found improperly isolated (recirc pump trip signal input)	Alignment done by same technician as 6/20 above. All instrument rack valves reverified. Technician counseled. Valve lineup checklist improvements in progress
7/1/87	Major steam leak on "B" low pressure (LP) turbine stop valve	Determined flange not properly torqued following valve overhaul. Corrected following 7/2 event
7/2/87	Reactor trip from 80% -- "A" RPS motor-generator (MG) failed. On transfer of "A" RPS bus to alternate source, lost power to "B" RPS bus, giving full scram	Determined that MG failed due to motor winding failure. Loss of "B" RPS caused by broken tab in transfer switch, which allowed switch to turn past "A" position to unused switch position. Replaced motor in MG; replaced failed switch component. However, cause of MG failure not fully evaluated.
7/4/87	During plant restart, found steam leakage on LP turbine rupture diaphragm	Replaced all LP turbine rupture diaphragms. Concluded condenser may have been overpressurized when applying gland seal steam
7/5/87	Restarted plant. On synchronizing with grid, electrohydraulic control (EHC) did not pick up load. One phase of main generator output breaker later did not close properly	Restarted plant without fully analyzing these conditions.
7/6/87	Reactor trip from 33% -- while transferring house loads from startup transformer to main generator, lost power to 4160V bus SM2. Loss of oil pumps on main feedwater pump caused loss of feedwater. Reactor trip on low reactor vessel level.	Under investigation.

DISTRIBUTION
Docket File
PDR
LPDR
JLee (2)

July 2, 1987

DOCKET NO(S). 50-397

Mr. G. C. Sorensen, Manager
Washington Public Power Supply System
P. O. BOX 968
3000 George Washington Way
Richland, Washington 99352

SUBJECT: WNP-2

The following documents concerning our review of the subject facility are transmitted for your information.

- ☐ Notice of Receipt of Application, dated _____.
- ☐ Draft/Final Environmental Statement, dated _____.
- ☐ Notice of Availability of Draft/Final Environmental Statement, dated _____.
- ☐ Safety Evaluation Report, or Supplement No. _____ dated _____.
- ☐ Environmental Assessment and Finding of No Significant Impact, dated _____.
- ☐ Notice of Consideration of Issuance of Facility Operating License or Amendment to Facility Operating License, dated _____.
- ☒ Bi-Weekly Notice; Applications and Amendments to Operating Licenses Involving No Significant Hazards Considerations, dated 6/17/87 [see page(s)] 23113.
- ☐ Exemption, dated _____.
- ☐ Construction Permit No. CPPR-_____, Amendment No. _____ dated _____.
- ☐ Facility Operating License No. _____, Amendment No. _____ dated _____.
- ☐ Order Extending Construction Completion Date, dated _____.
- ☐ Monthly Operating Report for _____ transmitted by letter dated _____.
- ☐ Annual/Semi-Annual Report- _____
_____ transmitted by letter dated _____.

Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc: See next page

OFFICE	DRS/PD5						
SURNAME	JLee						
DATE	7/12/87						

0800

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1100

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1300

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Palo Verde

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