

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8211290279      DOC. DATE: 82/11/19      NOTARIZED: NO      DOCKET #  
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe      05000397  
 AUTH. NAME      AUTHOR AFFILIATION  
 BOUCHEY, G.D.      Washington Public Power Supply System  
 RECIPIENT NAME      RECIPIENT AFFILIATION  
 SCHWENCER, A.      Licensing Branch 2

SUBJECT: Responds to NRC 820922 ltr re resolution of Licensing Review  
 Group II Issue 3-CPB concerning channel box deflection, Util  
 channel mgt program for facility discussed.

DISTRIBUTION CODE: B001S      COPIES RECEIVED: LTR 1 ENCL 1      SIZE: 2  
 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	NRR/DL/ADL	1 0	NRR LB2 BC	1 0
	NRR LB2 LA	1 0	AULUCK, R, 01	1 1
INTERNAL:	ELD/HDS2	1 0	IE FILE	1 1
	IE/DEP EPDS 35	1 1	IE/DEP/EPLB 36	3 3
	NRR/DE/AEAB	1 0	NRR/DE/CEB 11	1 1
	NRR/DE/EQB 13	2 2	NRR/DE/GB 28	2 2
	NRR/DE/HGEB 30	1 1	NRR/DE/MEB 18	1 1
	NRR/DE/MTEB 17	1 1	NRR/DE/QAB 21	1 1
	NRR/DE/SAB 24	1 1	NRR/DE/SEB 25	1 1
	NRR/DHFS/HFEB40	1 1	NRR/DHFS/LQB 32	1 1
	NRR/DHFS/OLB 34	1 1	NRR/DL/SSPB	1 0
	NRR/DSI/AEB 26	1 1	NRR/DSI/CPB 10	1 1
	NRR/DSI/CSB 09	1 1	NRR/DSI/ICSB 16	1 1
	NRR/DSI/METB 12	1 1	NRR/DSI/PSB 19	1 1
	NRR/DSI/RAB 22	1 1	NRR/DSI/RSB 23	1 1
	<u>REG FILE</u> 04	1 1	RGN5	3 3
	RM/DDAMI/MIB	1 0		
EXTERNAL:	ACRS 41	6 6	BNL (AMDTS ONLY)	1 1
	DMB/DSS (AMDTS)	1 1	FEMA-REP DIV 39	1 1
	LPDR 03	1 1	NRC PDR 02	1 1
	NSIC 05	1 1	NTIS	1 1

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DATE	TIME	LOCATION	ACTIVITY	STATUS	REMARKS
10/15/80	1400	Room 3030	Meeting	Completed	Discussed security procedures.
10/15/80	1500	Room 3030	Meeting	Completed	Reviewed incident reports.
10/15/80	1600	Room 3030	Meeting	Completed	Discussed personnel matters.
10/15/80	1700	Room 3030	Meeting	Completed	Reviewed security logs.
10/15/80	1800	Room 3030	Meeting	Completed	Discussed operational issues.
10/15/80	1900	Room 3030	Meeting	Completed	Reviewed security alerts.
10/15/80	2000	Room 3030	Meeting	Completed	Discussed compliance matters.
10/15/80	2100	Room 3030	Meeting	Completed	Reviewed security reports.
10/15/80	2200	Room 3030	Meeting	Completed	Discussed security training.
10/15/80	2300	Room 3030	Meeting	Completed	Reviewed security plans.
10/15/80	2400	Room 3030	Meeting	Completed	Discussed security policies.
10/15/80	2500	Room 3030	Meeting	Completed	Reviewed security incidents.
10/15/80	2600	Room 3030	Meeting	Completed	Discussed security measures.
10/15/80	2700	Room 3030	Meeting	Completed	Reviewed security status.
10/15/80	2800	Room 3030	Meeting	Completed	Discussed security findings.
10/15/80	2900	Room 3030	Meeting	Completed	Reviewed security actions.
10/15/80	3000	Room 3030	Meeting	Completed	Discussed security results.
10/15/80	3100	Room 3030	Meeting	Completed	Reviewed security trends.
10/15/80	3200	Room 3030	Meeting	Completed	Discussed security forecasts.
10/15/80	3300	Room 3030	Meeting	Completed	Reviewed security risks.
10/15/80	3400	Room 3030	Meeting	Completed	Discussed security controls.
10/15/80	3500	Room 3030	Meeting	Completed	Reviewed security effectiveness.
10/15/80	3600	Room 3030	Meeting	Completed	Discussed security improvements.
10/15/80	3700	Room 3030	Meeting	Completed	Reviewed security performance.
10/15/80	3800	Room 3030	Meeting	Completed	Discussed security challenges.
10/15/80	3900	Room 3030	Meeting	Completed	Reviewed security solutions.
10/15/80	4000	Room 3030	Meeting	Completed	Discussed security conclusions.

## Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

Docket No. 50-397

November 19, 1982  
G02-82-936

Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: RESOLUTION OF LRG-II  
CHANNEL BOX DEFLECTION ISSUE

Reference: NRC Letter, A. Schwencer (NRC) to RL Ferguson (SS),  
"Resolution of LRG-II Channel Box Deflection Issue  
(LRG-II Issue 3-CPB)," dated September 22, 1982.

In the referenced letter, you requested that we respond as soon as possible on the channel box deflection issue for WNP-2 in order that this item be resolved.

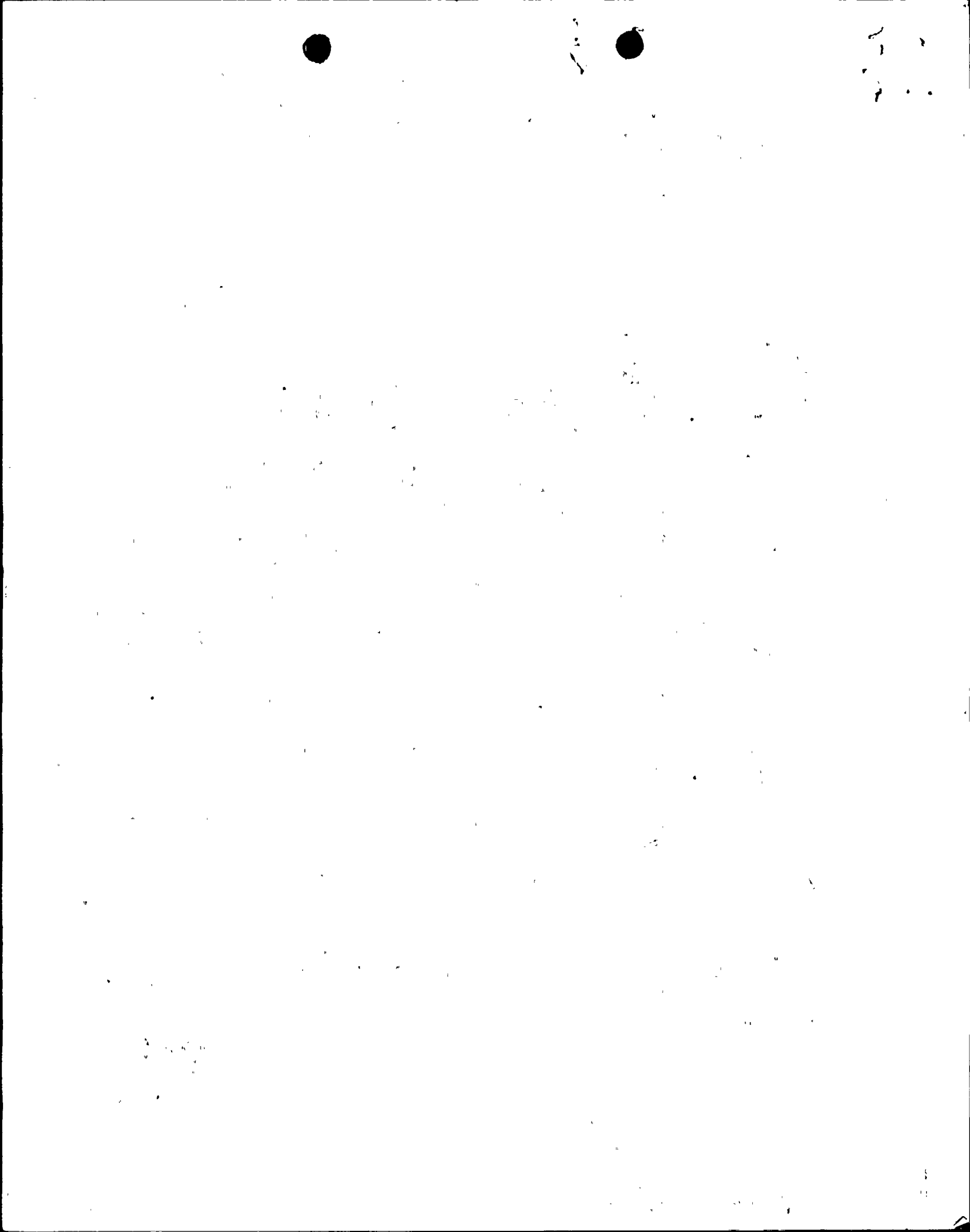
The Supply System has initiated a channel management program for WNP-2. The elements of this program include:

- Compiling complete operating history records for each channel. Data to be collected include channel location, orientation of welded sides, exposure and control history.
- Compiling complete analytical history records for each channel including fast fluence (>1 MeV), and flux gradient history.
- Measurement of post-operation channel box deflection.

The Supply System is planning to measure channel box deflection after each refueling outage for selected channels which are discharged to the spent fuel pool. The reuse of discharged channels will be determined based upon these measurements as compared to predetermined criteria. Other items which will be addressed in this program include development of channel manufacturing history data and analytical prediction capability.

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The Channel Management Program has already resulted in some potential improvement in channel operation. Data from Commonwealth Edison measurements which recently became available indicate that major channel bow may be a strong function of channel manufacturing history rather than location of the channel within the core. Their data indicate that prime candidates for channel bow are manufactured from mismatched halves. This means that the channel was manufactured from two pieces of stock material not from the same original material batch. Also, Commonwealth Edison channels which experienced major bow, in many cases, were never on the core periphery.

Based on this information, the Supply System has identified which of the WNP-2 channels are manufactured from mismatched halves (75 out of 764) and we have set up special plans to manage the use of these channels to minimize potential channel bow. These measures include taking advantage of core locations which are not adjacent to control blades and, in addition, identification of locations of minimal exposure and fast flux tilt.

In addition to the above channel management program, the Supply System is proposing to take a number of operational actions to monitor channel distortion in the core. Prior to startup after each reload, scram time testing and rod notch testing will be performed. For rods which fail the above test, the pressure test described in NEDE-21354-P (4.4.2) will then be performed.

Very truly yours,



G. D. Bouchey (MD 370)  
Manager, Nuclear Safety & Licensing

WCW:jms

cc: R. Auluck - NRC  
WS Chin - BPA  
R. Feil - NRC-Site

