REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8207020132 DOC. DATE: 82/07/01 NOTARIZED: NO DOCKET #
FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH. NAME AUTHOR AFFILIATION
CURTIS, N. W. Pennsylvania Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
SCHWENCER, A. Licensing Branch 2

SUBJECT: Submits general guidelines to mitigate consequences of channel bowing. Prior to beginning new operating cycle, control rod drive friction test shall be performed for core cells exceeding guidelines.

DISTRIBUTION CODE: B001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
TITLE: PSAR/FSAR AMDTS and Related Correspondence

NOTES:

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	LIC BR #2 LA		1	0	PERCH, R.	01	1	1
INTERNAL:	ELD/HDS4		1	0	IE FILE		1	1
	IE/DEP EPDS	35	1	1	IE/DEP/EPLB	36	3	3
	MPA		1	0	NRR/DE/CEB	11	1	1
	NRR/DE/EQB	13	3	3	NRR/DE/GB	28	2	2
	NRR/DE/HGEB	30	2	2	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/HFEB	40	1	1	NRR/DHFS/LQB	32	1	1
	NRR/DHFS/OLB	34	1	1	NRR/DHFS/PTRB	20	1	1
	NRR/DSI/AEB	26	1	1	NRR/DSI/ASB	27	1	1
	NRR/DSI/CPB	10	1	1	NRR/DSI/CSB	09	1	1
	NRR/DSI/ETSB	12	1	1	NRR/DSI/ICSB	16	1	1
	NRR/DSI/PSB	19	1	1	NRR/DSI/RAB	22	1	1
	NRR/DSI/RSB	23	1	1	NRR/DST/LQB	33	1	1
	REG FILE	04	1	1	RGN1		2	2
EXTERNAL:	ACRS	41	10	10	BNL(AMDTS ONLY)		1	1
	DMB/DSS (AMDTS)		1	1	FEMA-REP DIV	39	1	1
	LPDR	03	2	2	NRC PDR	02	1	1
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	LIC BR #2 LA	1	0	PERCH, R	01	1	1
INTERNAL:	ELD/HDS4	1	0	IE FILE		1	1
	IE/DEP EPDS 35	1	1	IE/DEP/EPLB 36		3	3
	MPA	1	0	NRR/DE/CRB 11		1	1
	NRR/DE/EQB 13	3	3	NRR/DE/GB 28		2	2
	NRR/DE/HGEB 30	2	2	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/DHFS/PTRB20		1	1
	NRR/DSI/AEB 26	1	1	NRR/DSI/ASB 27		1	1
	NRR/DSI/CPB 10	1	1	NRR/DSI/CSB 09		1	1
	NRR/DSI/ETSB 12	1	1	NRR/DSI/ICSB 16		1	1
	NRR/DSI/PSB 19	1	1	NRR/DSI/RAB 22		1	1
	NRR/DSI/RSB 23	1	1	NRR/DST/LQB 33		1	1
	REG FILE 04	1	1	RGN1		2	2
EXTERNAL:	ACRS 41	10	10	BNL(AMDTS ONLY)		1	1
	DMB/DSS (AMDTS)	1	1	FEMA-REP DIV 39		1	1
	LPDR 03	2	2	NRC PDR 02		1	1
	NSIC 05	1	1	NTIS		1	1

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PP&L Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215 / 770-5381

July 1, 1982

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

SUSQUEHANNA STEAM ELECTRIC STATION
CHANNEL BOX DEFLECTION
ER 100450 FILE 841-2 Docket Nos. 50-387
PLA-1158 388

Dear Mr. Schwencer:

The following general guidelines are exercised to mitigate the consequences of channel bowing.

a. Records are kept of channel location and exposure for each operating cycle.

b. Channels should not reside in the outer row of the core for more than two operating cycles.

c. At the beginning of each fuel cycle, the combined outer row residence time for any two channels in any control rod cell should not exceed four peripheral cycles.

Prior to beginning a new operating cycle, control rod drive friction tests shall be performed for those core cells exceeding the above general guidelines or containing fuel channels with exposures greater than 30,000 MWd/T (associated fuel bundle exposures).

In lieu of items b and c and friction testing, fuel channel deflection measurements may be used to justify use of fuel channels exceeding 30,000 MWd/T exposure for a maximum of four additional operating cycles. These measurements will assure achievement of the scram function and thus eliminates the need for items b and c above.

B001

In the future, analytical channel lifetime prediction methods, benchmarked and backed up by periodic deflection measurements of a sample of the highest duty fuel channels, may be used to ensure clearance between control rod blades and fuel channels without additional testing.

Very truly yours,

David P. Moyer /Sr

N.W. Curtis
Vice President - Engineering & Construction - Nuclear

DPM

cc: R.L. Perch - NRC