

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RID'S)

ACCESSION NBR: 8207020132    DOC. DATE: 82/07/01    NOTARIZED: NO    DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 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:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	
INTERNAL:	A/D LICENSNG	1 0	LIC BR #2 BC	1 0	
	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/GAB 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	
	<b>REG FILE</b>	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	

## REGULATORY INFORMATION DISTRIBUTION RECORD (RIDR)

RECESSION NUMBER: 85\02\01 DATE: 85\02\01 NOTARIZED: NO  
 FACIL: 50-382 Standard Series Effective 2/28/81 until 5/ Peoria  
 50-398 Standard Series Effective 3/14/81 until 5/ Peoria  
 AUTHOR NAME: CURTIS, N. M.  
 RECIPIENT AFFILIATION: Penusalyanis Power & Light Co.  
 RECEIPT. NAME: SCHMIDTER, A.  
 RECIPIENT AFFILIATION: Fiegenfeld Brueck S

SUBJECT: Supreme Court decision on maximum convergence of  
 channel power. Prior to preliminary new objective changes  
 court to takeative position was still be best option for the  
 city exceeding authority guidelines

DISTRIBUTION CODE: BO02 COPIES RECEIVED: LTR 7 LINC 1 SIZE: 5  
 TITLE: PASSAR AMDA 94 Relating to a Cottapponage

NOTES:

ID CODE\NAME	RECIPIENT	COPIES	RECIPIENT ID CODE\NAME	LTR ENCL	COPIES	RECIPIENT ID CODE\NAME	LTR ENCL	COPIES	RECIPIENT ID CODE\NAME	LTR ENCL	COPIES
LIC BR # 5 LA		1	LIC BR # 5 DC	0	0	PERCH, R	01	1	LIC BR # 5 LA		1
MPA		1	NRR\DE\GEB	11	1	NRR\DE\GEB	11	1	NRR\DE\GEB		1
NRR\DE\HGB		13	NRR\DE\HGB	18	5	NRR\DE\HGB	18	1	NRR\DE\HGB		1
NRR\DE\HGEB		30	NRR\DE\HGEB	23	5	NRR\DE\HGEB	23	1	NRR\DE\HGEB		1
NRR\DE\HMB		17	NRR\DE\HMB	21	1	NRR\DE\HMB	21	1	NRR\DE\HMB		1
NRR\DE\HSEB		54	NRR\DE\HSEB	25	1	NRR\DE\HSEB	25	1	NRR\DE\HSEB		1
NRR\DE\HS\HFB40		1	NRR\DE\HS\HFB40	34	1	NRR\DE\HS\HFB40	34	1	NRR\DE\HS\HFB40		1
NRR\DE\HSS\HFB50		1	NRR\DE\HSS\HFB50	35	1	NRR\DE\HSS\HFB50	35	1	NRR\DE\HSS\HFB50		1
NRR\DE\HSS\HFB50		1	NRR\DE\HSS\HFB50	36	1	NRR\DE\HSS\HFB50	36	1	NRR\DE\HSS\HFB50		1
NRR\DE\EPB		35	NRR\DE\EPB	36	1	NRR\DE\EPB	36	1	NRR\DE\EPB		1
NRR\DE\EPBS		35	NRR\DE\EPBS	36	1	NRR\DE\EPBS	36	1	NRR\DE\EPBS		1
INTERNAL: ELDHSD4		1	IE FILE	0	1	IE FILE	0	1	INTERNAL: ELDHSD4		1
EXTERNAL: ACRS		41	BUL(AMDA ONLY)	10	10	BUL(AMDA ONLY)	10	10	EXTERNAL: ACRS		1
DM\ADS (AMDA)		1	EMW-B44 DIA 3A	1	1	EMW-B44 DIA 3A	1	1	DM\ADS (AMDA)		1
LPRD		03	NRC PDR	05	1	NRC PDR	05	1	LPRD		1
MSIC		02	NTI?	1	1	NTI?	1	1	MSIC		1



# 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  
PLA-1158

Docket Nos. 50-387  
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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.

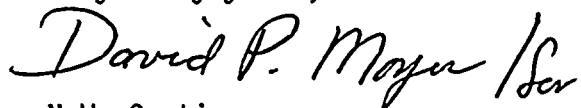
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In the future, analytical channel lifetime prediction methods, benchmarked and backed up by periodic deflection measurements of a sample of the highest duty fuel channels, may be used to ensure clearance between control rod blades and fuel channels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

Very truly yours,



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

DPM

cc: R.L. Perch - NRC

