

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8909080244      DOC. DATE: 89/08/30      NOTARIZED: NO      DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv      05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388

AUTH. NAME      AUTHOR AFFILIATION  
 KEISER, H.W.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 RUSSELL, W.T.      Region 1, Ofc of the Director

SUBJECT: Provides supplemental response to NRC Bulletin 88-004.

DISTRIBUTION CODE: IE11D      COPIES RECEIVED: LTR 1 ENCL 0      SIZE: 1  
 TITLE: Bulletin Response (50 DKT)

NOTES: LPDR 1 cy Transcripts.      05000387  
 LPDR 1 cy Transcripts.      05000388

	RECIPIENT		COPIES			RECIPIENT		COPIES	
	ID CODE/NAME		LTTR	ENCL		ID CODE/NAME		LTTR	ENCL
	PD1-2 LA		1	0		PD1-2 PD		1	1
	THADANI, M		1	1					
INTERNAL:	AEOD/DOA		1	1		AEOD/DSP/TPAB		1	1
	NRR/DEST/ADS 7E		1	1		NRR/DEST/MEB 9H		1	1
	NRR/DOEA/EAB 11		1	1		NRR/DOEA/GCB 11		1	1
	NRR/DREP/EPB 10		1	1		NRR/PMAS/ILRB12		1	1
	NUDOCS-ABSTRACT		1	1		<u>REG FILE</u> 02		1	1
	RES/DSIR/EIB		1	1		RGN1 FILE 01		1	1
EXTERNAL:	LPDR		1	1		NRC PDR		1	1
	NSIC		1	1					
NOTES:			2	2					

TOTAL NUMBER OF COPIES REQUIRED: LTTR 20 ENCL ~~19~~ <sup>0</sup>

R  
I  
D  
S  
/  
A  
D  
D  
S  
  
R  
I  
D  
S  
/  
A  
D  
D  
S

A/O 1/9



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Harold W. Keiser  
Senior Vice President-Nuclear  
215/770-4194

AUG 30 1989

Mr. William T. Russell  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION  
SUPPLEMENTAL RESPONSE TO BULLETIN 88-04  
PLA-3246 FILES R41-2/R41-1A

Docket Nos. 50-387  
and 50-388

Dear Mr. Russell:

This letter provides Pennsylvania Power & Light Company's (PP&L) supplemental response to Bulletin 88-04. PP&L has concluded that no additional surveillances or plant modifications are required to address long term operation of the Core Spray and RHR pumps in minimum flow conditions. The HPCI and RCIC pump operation in this mode was previously evaluated as being adequate (PLA-3106 dated October 31, 1988).

Our conclusion was based upon an evaluation of short period minimum flow operation over time (less than three hours per day) and also of continuous minimum flow pump operation. For short periods the original minimum flow specification of 10% best efficiency point (BEP) flow is adequate. Continuous minimum flow operation requires 30-40% BEP flow to prevent accelerated damage due to recirculation flow, cavitation, excessive shaft loading, etc. Calculations performed to assess the accumulated loss of service life due to operation of these pumps below the continuous minimum flow (30-40% BEP) concluded that this operation only decreases the pump service life by less than 1% annually.

If you have any questions, please contact R.D. Kichline at 215-770-4181.

Very truly yours,

  
FOR H. W. Keiser

Attachment

8909080244 890830  
PDR ADUCK 05000387  
Q PDC

cc: NRC Document Control Desk (original)  
NRC Region I  
Mr. G. S. Barber, Sr. Resident Inspector  
Mr. M. C. Thadani, NRC Project Manager

TEL  
1/0