

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8112070288 DOC. DATE: 81/12/02 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.
 RECIPIENT NAME RECIPIENT AFFILIATION
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Discusses revised methodology used in determining submerged structure drag loads due to safety relief valve actuation, as presented in 81118 meeting w/NRC.

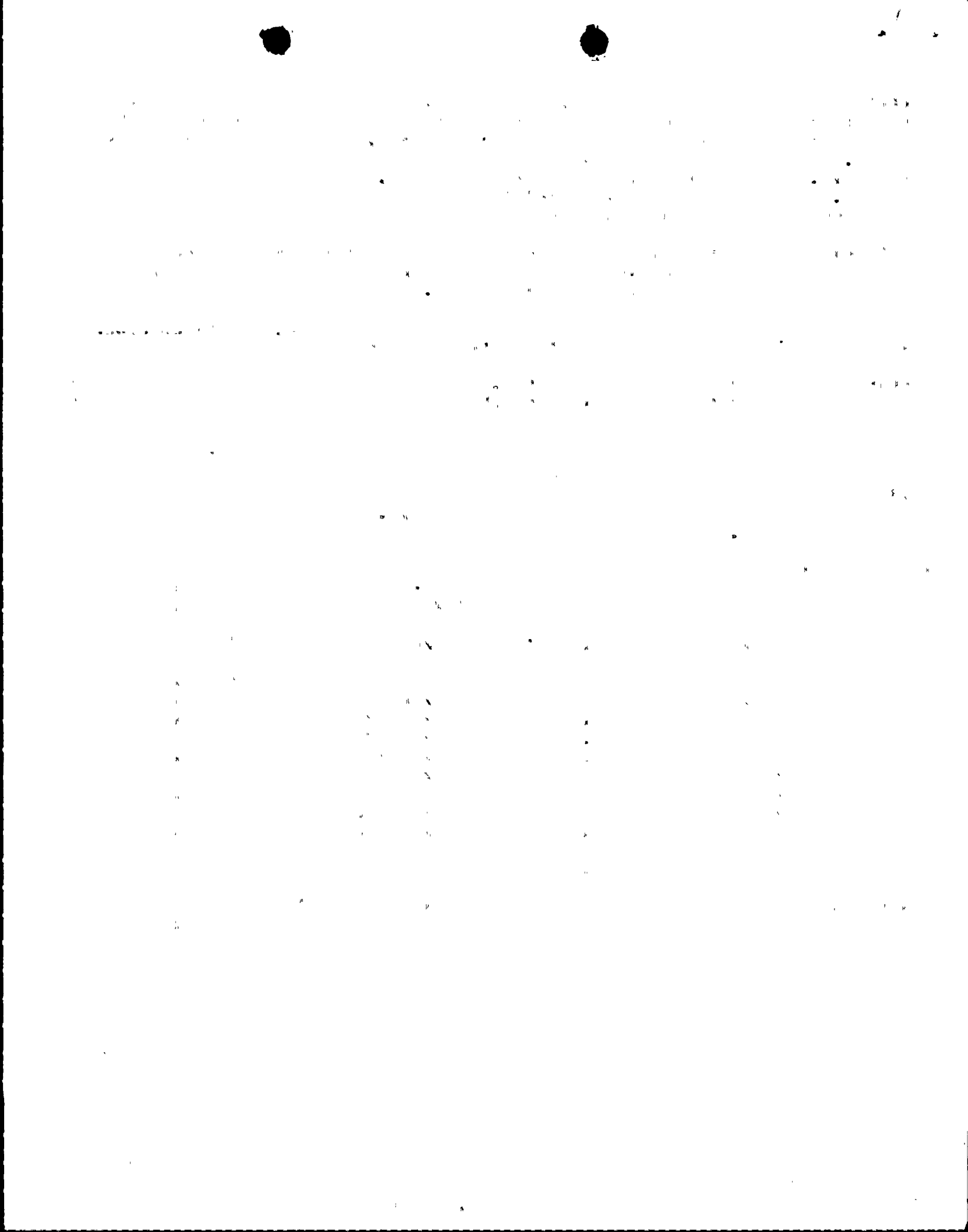
DISTRIBUTION CODE: B001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 1+27
 TITLE: PSAR/FSAR AMDTS and Related Correspondence

NOTES: I&E: 3 copies FSAR & all amends. LPDR: 2 cys 05000387
 I&E: 3 copies FSAR & all amends. LPDR: 2 cys 05000388

ACTION:	RECIPIENT		COPIES		RECIPIENT	COPIES	
	ID CODE/NAME	LTR	ENCL	ID CODE/NAME		LTR	ENCL
	A/D LICENSNG	1	0	LIC BR #2 BC	1	0	
	LIC BR #2 LA	1	0	PERCH, R. 01	1	1	
	PERCH, R. 04	1	1				
INTERNAL:	ELD	1	0	EMRG IPRP DEV 35	1	1	
	EMRG IPRP LIC 36	3	3	FEMA-REP DIV 39	1	1	
	IE 06	3	3	IE/DEP/EPDB 35	1	1	
	IE/DEP/EPLB 36	3	3	MPA	1	0	
	NRR/DE/CEB 11	1	1	NRR/DE/EOB 13	13	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/QPB 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/DSI/LGB 33	1	1	OELD	1	0	
	<u>REG FILE</u> 01	1	1	REG FILE 04	1	1	
EXTERNAL:	ACRS 41	16	16	BNL (AMDTS ONLY)	1	1	
	FEMA-REP DIV 39	1	1	LPDR 03	21	12	
	NRC PDR 02	1	1	NSIC 05	1	1	
	NTIS 1	1	1				

DEC 7 1981

TOTAL NUMBER OF COPIES REQUIRED: LTR 70 ENCL 64





Pennsylvania Power & Light Company

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

December 2, 1981

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



SUSQUEHANNA STEAM ELECTRIC STATION
SUBMERGED STRUCTURE DRAG LOADS
DUE TO SRV ACTUATION
ER 100450 FILE 841-2, 172
DOCKETS NOS. 50-387, 50-388
PLA-969

Dear Mr. Schwencer:

On November 18, 1981 we held a meeting with the Containment Systems Branch to review the revised methodology to be used on Susquehanna in determining the submerged structure drag loads due to SRV actuation.

As presented in the subject meeting, the original KWU methodology (see DAR Subsection 4.1.3.7) has been revised as follows:

- o The submerged structure multipliers documented in DAR Table 4-15 have been reduced to the values determined by the in-plant SRI bubble tests. These reduced multipliers will be used for all submerged structures.
- o For evaluating the downcomer & Safety Relief Valve discharge line bracing system, the potential flow methodology described in NEDE 21471 & NUREG 0487 will be used. The sources to be used with this methodology will be based on the three pressure time histories shown in Figures 4-28, 4-29 & 4-30 of the SSES Design Assessment Report. A multiplier of 6.4 is applied to all the forces calculated by the above methodology. The multiplier was based on the original KWU SRV submerged structure drag load methodology using the shape factors determined from the SRI bubble tests.

A copy of the slides presented during the referenced meeting is attached.

Our DAR will be revised to reflect the above.

Very truly yours,

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

PAF/DFR/jaa

RESPONSE REQUIRED: No

8112070288 811202
PDR AD0CK 05000387
A PDR

*Boal
5/11*

