

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9002220349 DOC. DATE: 90/02/07 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 KEISER, H.W. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION
 BUTLER, W.R. Project Directorate I-2

SUBJECT: Forwards rev to relief Request 56 to inservice insp program for pump & valve operational testing for review & approval.

DISTRIBUTION CODE: A047D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3
 TITLE: OR Submittal: Inservice Inspection/Testing/Relief from ASME Code

NOTES: LPDR 1 cy Transcripts. 05000387

	RECIPIENT ID CODE/NAME	COPIES	L	T	E	N	C	L	R	S
	PDI-2 LA	1		0						
	THADANI, M	1		1						
INTERNAL:	ACRS	6		6						
	NRR/DET/ECMB 9H	1		1						
	NUDOCS-ABSTRACT	1		1						
	OGC/HDS2	1		0						
	RES/DSIR/EIB	1		1						
	AEOD/DSP/TPAB	1		1						
	NRR/DET/EMEB 9H	1		1						
	OC/LEMB	1		0						
	REG FILE 01	1		1						
EXTERNAL:	EG&G BROWN, B	1		1						
	LPDR	1		1						
	NSIC	1		1						
	EG&G RANSOME, C	1		1						
	NRC PDR	1		1						

NOTES: 2 2

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTR 28 ENCL 25

MA 14

R
I
D
S
/
A
D
D
S

1945

1946

1947

1948

1949

1950

1951

1952

1953



Pennsylvania Power & Light Company

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

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

FEB 07 1990

Director of Nuclear Reactor Regulation
Attention: Dr. W. R. Butler, Project Director
Project Directorate I-2
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
Washington DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
REVISION TO RELIEF REQUEST #56 TO THE
UNIT 1 IN SERVICE TESTING PROGRAM FOR
PUMPS AND VALVES
PLA-3332 FILES R41-2, A17-16

Docket No. 50-387

Dear Dr. Butler:

Attached for your review and approval is a revision to Relief Request #56 to the Unit 1 Inservice Inspection Program for Pump and Valve Operational Testing. This revision to the Relief Request is being sent to you per the guidance given during workshops held to discuss Generic Letter 89-04. The original Relief Request #56 was approved via the issuance of Generic Letter 89-04. In order to facilitate your review the sections of the original Relief Request which are deleted have a line drawn through them. The sections of Relief Request #56 which were added are underlined.

The justification for this change to Relief Request #56 is that the design of the Emergency Service Water System does not have provision for infinite variation of pump flowrate by any positive means. Not having this provision renders adherence to the limits of ASME Code Section XI Paragraph IWP-3100 Table IWP-3100-2 impractical.

We request that this relief request be approved by February 19, 1990 in order that it may be incorporated in the next quarterly testing.

Very truly yours,

H. W. Keiser

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

A047
11



11

RELIEF REQUEST NUMBER 56

System: Emergency Service Water
 P&ID: M - 111
 Pumps: OP504A, OP504B, OP504C, OP504D
 Class: 3
 Function: Process flow for Emergency Service Water System

Impractical Test Requirement: The resistance of the system shall be varied until either the measured differential pressure or the measured flow rate equals the corresponding reference value. ...Each measured test quantity shall then be compared with the reference value of the same quantity. (Paragraph IWP-3100). Reference values shall be determined from the results of an inservice test...(Paragraph IWP-3110).

Basis For Relief: Current design of the ESW System does not include provision for variation of system resistance by any positive means. Neither measured flow rate nor measured differential pressure can be set equal to the corresponding reference value by any positive means. The flow rates and the differential pressures produced by non-variable hydraulic resistance factors within the system control the measured values for flowrate and differential pressure obtained during each test. (i.e., flowrate is governed by the alignment of the emergency diesel generators and by the number of other heat loads valved into the system.)

Alternative Testing: Run the ESW System as designed and measure pump flow rates and differential pressures produced by the system. ~~Evaluate both test quantities independently by the criteria of Table IWP-3100-2.~~ Since the flowrate is a function solely of system alignment, a flowrate reference value is not appropriate. No reference value will be determined for flowrate and no comparison will be made.

Evaluate the differential pressure, throughout a range of selected flowrates, against graphical limits established from the pertinent section of the (generic) pump curve. These limits are generated from the latest (generic) post-overhaul pump curve, by application of the Table IWP-3100-2 Acceptable Range Low Value of 0.93 ΔP ref, and High Value of 1.02 ΔP ref; Alert Range Low Value of 0.90 ΔP ref, and High

RELIEF REQUEST NUMBER 56 (Cont'd)

Value of 1.03 ΔP ref; and Required Action Range Low
Value of $< 0.90 \Delta P$ ref, and High Value of $> 1.03 \Delta P$
ref.

ΔP ref = "Reference" differential pressure, calculated from the
"reference" developed head (also taken from the latest
(generic) post-overhaul pump curve).



Handwritten scribbles in the top right corner.

Faint, illegible text line.

Faint, illegible text line.

Faint, illegible text in the center.