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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Responds to questions raised during 831026 telcon & forwards equipment qualification summary rept.

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NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys. 05000387
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Pennsylvania Power & Light Company

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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

NOV 03 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
RESPONSE TO STAFF QUESTIONS ON
ENVIRONMENTAL QUALIFICATION
ER 100450 FILES 148, 843
PLA-1929

Docket No. 50-387
50-388

Dear Mr. Schwencer:

This letter responds to questions asked by Mr. H. Garg of your staff during an October 26, 1983 phone conversation with our Mr. G. S. Wetzel and Mr. W. W. Williams.

Attached find revised sheet 5D-237 of our Equipment Qualification Summary Report. Note 3a has been revised as requested. For your information, a graph is attached which depicts actual testing.

PLA-1893, dated October 14, 1983 transmitted Pennsylvania Power & Light Company's report entitled "Evaluation of the Effects of High Energy Line Breaks on Control Systems." This report was submitted to respond to License Condition C.25(b) of NPF-14.

Very truly yours,

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

Attachment

cc: R. Perch - NRC
H. Garg - NRC

8311080369 831103
PDR ADOCK 05000387
P PDR



A044
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Main body of the document containing extremely faint and illegible text, possibly bleed-through from the reverse side.

EQUIPMENT QUALIFICATION REPORT

OWNER PP&L
 FACILITY SUSQUEHANNA
 DOCKET NO

UNIT 2

EQQF NO .40B
 COMPONENT SHEET NO 2 of 2
 REV 1 DATE 10/27/83

DOCUMENTATION REFERENCES (CONT.)

NOTES (CONT.)

2. RTDs consist of Platinum, Stainless Steel, Nickel Plated Cast Iron, Ceramic, Kapton and Viton. Kapton and Viton are subject to aging effects, both are qualified for 40 years.

3. Hi-Energy Line Break Test

<u>Time</u>	<u>Conditions</u>
0	Ambient
0-10 min.	415°F, 70 psig
10-60 min.	355°F, 70 psig

- 3a. Loca Test Parameters

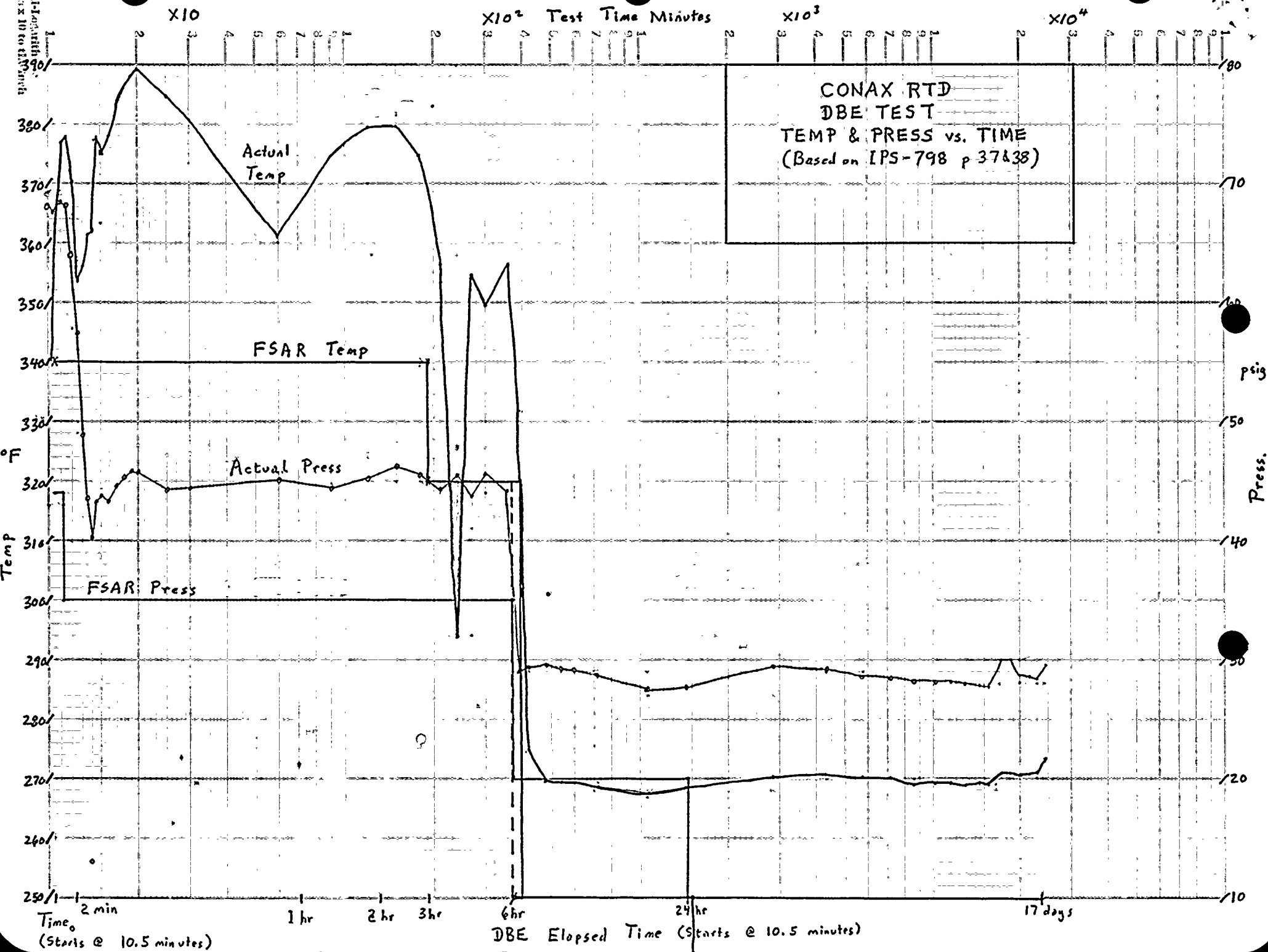
<u>Time</u>	<u>Conditions</u>	<u>Caustic Spray</u>
0-2 min.	354°F 57 psig	48 hrs
2 min-3 hrs	354°F 40 psig	
3 hrs - 6 hrs	320°F 37 psig	
6 hrs -17 days	267°F 27 psig*	

4. Temperature/Pressure Requirements:

<u>Time</u>	<u>Temperature (°F)</u>	<u>Pressure (psig)</u>
0-45 sec.	340	44
45 sec. - 3 hrs.	340	35
3 hrs. - 6 hrs.	320	35
6 hrs. - 24 hrs.	250	20
1 day - 100 days	200	10

*Equivalent to 552 days at 200°F per Vendor report Ref. C (IPS-798 page 7, para. 15.3.1)

5. Beta radiation 7.4E08. Viton O-Ring is completely nested between the base of the RTD head. When the cover is screwed closed there is metal to metal contact between the cover and the base, leaving no air gap for the O-Ring to be exposed to beta radiation.



Semi-Logarithmic
A Cycle x 10 to the Power

