

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8208310125 DOC. DATE: 82/08/25 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 CURTIS, N.W. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Provides analysis of wetwell environ & effect on environ
 qualification of equipment due to steam bypass per License
 Condition c (18)(a). Submittal satisfies SER Suppl
 3/Sections 3.11.3.3 & 3.11.5(2)(c).

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 TITLE: OR/Licensing Submittal: Equipment Qualification

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	IE FILE	09	1	1	NRR CALVO, J		1	1	
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	<u>REG. FILE</u>	04	1	1	RGN1		1	1	
EXTERNAL:	ACRS	15	10	10	LPDR	03	2	2	
	NRC PDR	02	1	1	NSIC	05	1	1	
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ACCESSION NR: R09310152 DOC. DATE: 820825 METALIZER: M7
FACIL: 30-307 Soudochanna Steam Electric Station, Unit 1, Pennsylvania
AUTH. NAME: AUTUMN AFFILIATION
LICENSING BRANCH 5 RECIP. NAME: RECIP. NAME
PENNSYLVANIA POWER & LIGHT CO. LICENSE BRANCH 5

SUBJECT: Provides analysis of wetwell enviton & effect on enviton
qualification of equipment due to steam bypass per license
condition c (10)(a). Submitted entitled SRB Subj:
Sections 3.11.3.3 & 3.11.5(c).

TITLE: ORNLicensing Submitted: Equipment Qualification
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15 ELNHD04	15	01	01	11	11
01 PERCH,R.	01	01	01	12	12
13 GC	13	01	01	13	13
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Pennsylvania Power & Light Company

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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
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AUG 25 1982

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSE CONDITION NO. C(18)(a)
EQUIPMENT QUALIFICATION-WETWELL CONDITIONS
FOR STEAM BYPASS
ER 100450 FILE 843
PLA-1251

Docket No. 50-387

Dear Mr. Schwencer:

Susquehanna SER Supplement 3, Section 3.11.3.3 and Section 3.11.5 (2) (c) require, prior to exceeding 5% power, an analysis of the wetwell environments and the effect on environmental qualification of equipment due to steam bypass. This letter provides information for the requested response.

The following Class 1E equipment is located in the wetwell (Environmental Zone C3):

Hydrogen recombiner-Westinghouse
Hycal RTD - SPOTMOS
Containment Penetrations
Cables

The hydrogen recombiner, cables, and penetrations in the wetwell are identical to those located in the drywell. The drywell equipment is qualified to the accident environment which attains a temperature of 340°F, thus enveloping any postulated steam bypass temperature in the wetwell.

The safety function of SPOTMOS is to provide temperature indication of the suppression pool in order for the operator to determine if a scram should be initiated. The highest suppression pool temperature at which a scram must be initiated is 110°F, far below any postulated steam bypass environment. If a DBA occurs, with steam bypass, a scram would be initiated through detection devices other than SPOTMOS, and thus SPOTMOS would not be required to perform a safety function.

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SSES PLA-1251
ER 100450 File 843
Mr. A. Schwencer

SPOTMOS may also be used for a post accident monitoring of suppression pool temperature. PP&L has committed to implement this Regulatory Guide 1.97 provision during the first refueling outage provided qualified equipment is available. In order to qualify SPOTMOS for steam bypass by the first refueling outage, PP&L is undertaking an analysis of wetwell temperature due to steam bypass. This analysis is based on the assumptions stated in PLA-1219. As a result of discussions with NRC staff personnel, this analysis will be modified to include a spectrum of DBA break sizes. Upon completion, the analysis results will be factored into SPOTMOS qualification, as well as the wetwell environmental qualification temperature profile, should the steam bypass temperature exceed the present wetwell maximum temperature (210°F).

In light of the above, the committed environmental qualification of Class 1E equipment located in the wetwell cannot be affected until first refueling outage. However, the evaluation presented above demonstrates that the safety of the plant is unaffected as a result of potential qualification changes due to a steam bypass event.

Very truly yours,



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

WWW/mks

cc: R. L. Perch - NRC



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