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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
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 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards updated info re reconciliation sampling program w/breakdown of supports examined as of 821021 by type & category of discrepancy. Program demonstrated adequacy of design process for large pipe supports.

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Pennsylvania Power & Light Company

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Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215 / 770-5381

OCT 27 1982

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

SUSQUEHANNA STEAM ELECTRIC STATION  
RECONCILIATION SAMPLING PROGRAM  
ER 100450 FILE 841-2  
PLA-1369

Docket No. 50-387

Dear Mr. Schwencer:

During the meeting October 8, 1982, PP&L described a program to verify the reconciliation judgement process for large pipe supports utilizing a sample of approximately 200 supports constituting a cross section of seismic Category I support types in the Susquehanna plant skewed towards the more complex types. The intent of the program was to demonstrate the adequacy of the engineering judgements made in the large pipe design process and to subsequently have Teledyne review the program relative to Finding No. 2 in the Final Report of their Independent Design Review. The Commission and Teledyne concurred with that approach and PP&L has proceeded on that basis.

The Reconciliation Sampling Program began on October 9 and was described in our October 14, 1982 letter (PLA-1346). PP&L expanded the program to 401 supports and has now completed that review. A breakdown of the supports that had been examined as of October 21 by type and by category of discrepancy was reviewed with you October 22. A copy of that information updated for the entire sample of 401 supports is attached for your reference.

Teledyne has stated that with the exception of welding on anchors (a support which restrains rotational motion) the Reconciliation Sampling Program has demonstrated the adequacy of the design process for large pipe supports and has provided ample evidence that the engineering judgements used to reconcile discrepancies between the as-built plant and the design requirements were adequate and proper and that the records for those judgements are intact and complete. PP&L concurs with Teledyne's statement. In order to resolve the single remaining issue (the adequacy of the reconciliation process for large pipe seismic Category I anchors), Teledyne has recommended a course of action. Consistent with that recommendation PP&L proposes that:

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SSES PLA-1369  
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Mr. A. Schwencer

- 1) For large pipe anchors inside containment:
  - a) PP&L will review all 16 Unit 1 anchors and categorize the discrepancies in accordance with the program described in the October 4, 1982 letter (PLA-1346).
  - b) Category III discrepancies which are determined to require more complex analysis than that used in the original design to resolve will be restored to their original design requirements prior to power ascension above 5%.
- 2) For large pipe anchors outside containment:
  - a) PP&L will review Unit 1 anchors (approximately 160) and categorize the discrepancies in accordance with the program described in the October 4, 1982 letter (PLA-1346).
  - b) Category III discrepancies which are determined to require more complex analysis than that used in the original design to resolve will be restored to their original design requirements by December 31, 1982.

Teledyne will document their concurrence with our proposal and will close the Finding in their Final Report of the Independent Design Review in the next few days.

We request that the Staff schedule a meeting with the Commissioners during the week of November 1, and proceed to remove the 5% power restriction in the Susquehanna license based on our commitment to complete steps 1a and 1b. PP&L expects to restart Unit 1, on October 30, complete required testing and be in a position to exceed 5% power about November 6. If you require further information, please call.

Very truly yours,



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

WEB/mks

Attachment

cc: R. L. Perch - USNRC  
D. F. Landers - TES

SUSQUEHANNA STEAM ELECTRIC STATION  
RECONCILIATION SAMPLING PROGRAM  
COMPOSITION OF SAMPLE OF 401 HANGERS

<u>Type</u>	<u>Population</u>	<u>Sample</u>
Snubbers.	25%	11%
Springs	15%	3%
Rigid Supports	54%	75%
Anchors	<u>6%</u>	<u>11%</u>
	100%	100%



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SUSQUEHANNA STEAM ELECTRIC STATION  
RECONCILIATION SAMPLING PROGRAM  
CATEGORY III DISPOSITIONS

No Calculations Required.....25

Simple Calculations Required.....42

Complex Calculations Required.....22