

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9004160121      DOC. DATE: 90/04/03      NOTARIZED: NO      DOCKET #  
FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv      05000387  
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
AUTH. NAME      AUTHOR AFFILIATION  
KEISER, H.W.      Pennsylvania Power & Light Co.  
RECIP. NAME      RECIPIENT AFFILIATION  
BUTLER, W.R.      Project Directorate I-2

SUBJECT: Forwards info re scheduled completion dates for mods to correct combustion air temp for diesel generator.

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Pennsylvania Power & Light Company

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APR - 3 1990

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

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, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
DIESEL GENERATORS  
PLA-3363 FILE R41-2

Docket Nos. 50-387  
and 50-388

Dear Dr. Butler:

This correspondence is a follow-up to the February 28, 1990 meeting between PP&L and NRC. This letter also supplements PLA-3341 dated February 2, 1990.

During the referenced meeting PP&L discussed open items and provided scheduled completion dates for each activity. Attachment 1 to this PLA provides that information.

Also at the February 28 meeting, we provided our plan for making permanent plant modifications to correct the combustion air temperature for each diesel generator. We discussed the design considerations associated with these modifications. Specifically the design must be seismic qualified or qualifiable, fail-safe, capable of responding to a wide range of cooling conditions, capable of handling start-up transient responses, and it must be capable of controlling a range of water flows from single to multiple-pump operation. Also, we presented issues related to procurement of the control valves which are the key components. Because the modification is a 'Q' installation the valves must be procured as ASME Section III, Class III. However, as we noted, delivery time on this class valve is anywhere from 26-42 weeks. Also, a 'Q' valve operator has a lead time of approximately 20 weeks and the necessary 'Q' control equipment approximately 26 weeks.

Given these delivery times and PP&L's commitment to correct the combustion air by October 1, we proposed utilizing non-Q valves, operators and control equipment. These components are more accessible and can be delivered in 6 to 10 weeks.

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As also discussed in the February 28 meeting we proposed proceeding down two parallel paths. The first is to order and install the non-Q components which results in correcting the combustion air on all the engines by October 1, 1990 (installation work is currently scheduled to begin in July, 1990 in order to support this date). The second path is to order the 'Q' components and when they are delivered, remove the non-Q valves and install the 'Q' valves.

The modification will be installed per PP&L's Operational Quality Assurance Program. All piping, wiring and conduit will be seismically qualified when installed. To support installation and operation of this modification, the following exemptions from 10CFR Appendix B are necessary:

- o Valves will be purchased as commercial quality ANSI B31.1
- o Valve operators will be purchased as commercial quality
- o The control system will be purchased as commercial quality.

As noted previously, we are scheduled to install the modification in all the engines utilizing the commercial grade components by October 1, 1990. We are presently evaluating the modification under 10CFR50.59 and if deemed to be an unreviewed safety question we will request NRC approval prior to installation.

If you have any questions, please contact D.J. Walters at (215) 770-6536.

Very truly yours,



H. W. Keiser

Attachment

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



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**ATTACHMENT 1 TO PLA-3363  
PP&L OPEN ACTION ITEMS**

**Complete Action**

- o *Control of Combustion Air*
  - Inlet Temperature**
    - o **Valve Position** **February 28**
    - o **Permanent Modification** **\*October 1**
- o *Engine Oil Changeout*  
**(E, B, C, D Complete)** **March 12**
- o *Assure Lube Oil Meets*  
*Defined Requirements* **Normal Sampling**  
**Acceptable**
- o *Technical Specification Changes* **March 15**
- o *Interim Inspections of Engines*  
*Estimated Operation*
  - o **A~50 Hrs.** **November 1**
  - o **B-D~60-90 Hrs.** **January-March**
- o *Include Lubrication Effects*  
*in The Piston Pin/Bushing*  
*Model* **Model Not**  
**Capable**

**\* Initially Using Non-Q Valves**

**NRC MEETING FEBRUARY 28, 1990**  
**PP&L OPEN ACTION ITEMS**

**Complete Action**

**o Balance All Engines**

**March 8**

**o Refurbish Engines**

**August 14**

- o Replace Piston Rings**
- o Inspect All Liners**
- o Inspect All Pistons**
- o Inspect All Pin/Bushing Interfaces**
- o Lube Oil Sample Point Location**
- o Remove End Caps & Lower Oil Ring**
- o Correct Fuel Oil Filter Vibration**

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