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 MILLER, C.L.                      Project Directorate I-2

SUBJECT: Confirms that actions documented in util '940419 response to NRC Bulletin 93-002, Suppl 1 completed, including briefings to operators & emergency response personnel. Requalification training for operators will begin on 940705.

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# Pennsylvania Power & Light Company

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George T. Jones  
Vice President-Nuclear Engineering  
610/774-7602

JUN 17 1994

Director of Nuclear Reactor Regulation  
Attention: Mr. C. L. Miller, Project Director  
Project Directorate I-2  
Division of Reactor Projects  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

**SUSQUEHANNA STEAM ELECTRIC STATION  
CONFIRMATORY RESPONSE TO  
NRC BULLETIN 93-02, SUPPLEMENT 1  
PLA-4157 FILES R41-1A/R41-2**

Docket Nos. 50-387  
and 50-388

*Reference: PLA-4121, R.G. Byram to C.L. Miller, "NRC Bulletin 93-02 Supplement 1: 60 Day Response," dated April 19, 1994.*

Dear Mr. Miller:

As requested by NRC Bulletin 93-02, Supplement 1 ("Debris Plugging of ECCS Suction Strainers"), the purpose of this letter is to confirm that the actions documented in the referenced letter have been completed. Each of those actions and their status is provided below.

- ***Insulation Replacement Modifications*** - Modifications to replace fibrous insulation with metallic insulation (assuming the debris generation zones provided in Regulatory Guide 1.82 Rev. 1) have been installed. From PP&L's perspective, this action substantially resolves the concerns expressed by the Bulletin supplement by removing the source of the problem. PP&L has performed significant evaluation and testing in support of this conclusion, and is continuing to work with the BWR Owners' Group (BWROG) on remaining issues that could impact its validity.
- ***Briefings of Affected Personnel*** - Near term briefings to operators and affected emergency response personnel have been completed. These briefings considered the testing and evaluations performed by PP&L, the ongoing efforts of the BWROG, and the various NRC communications on the subject. They included:

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- Background: Barseback, Perry experience; general phenomenon
- Various types of potential debris sources at SSES
- Potential strainer blockage indications:
  - = Decreased system flow
  - = Decreased motor amps
  - = Oscillation or reduction in pump discharge pressure
  - = Minimum flow valve opening or cycling
  - = Oscillation or reduction in suction pressure
  - = Cavitation noise
- Potential mitigating actions, in accordance with the existing SSES symptom-based Emergency Operating Procedures:
  - = Switching ECCS loops (to aid in dislodging debris) if all loops are not required
  - = Reducing flow if adequate cooling can be maintained
  - = Using alternate water sources for injection
- **Requalification Training** - Reemphasis of the topics outlined above through simulator training and discussion of updated information (based on the evolving efforts by the industry on this issue) will occur during normal operator requalification training cycles until final resolution of this issue is achieved for Susquehanna SES. Based on the current training schedule, the initial rounds of this training for all operators will begin on July 5, 1994 and be completed by mid-August.

Any questions on this submittal should be directed to Mr. R. R. Sgarro at (610) 774-7914.

Very truly yours,



G. T. Jones

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