

# PRIORITY 1

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SUBJECT: Documents overview of PP&L current plans for gathering data on hydraulic response of reactor recirculation sys, in response to request from C Poslusny, in ref to 940727 proposed amend for power uprate w/increased core flow.

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**SUSQUEHANNA STEAM ELECTRIC STATION  
ADDITIONAL INFORMATION ON UNIT ONE  
POWER UPRATE STARTUP TEST PROGRAM  
PLA-4261 FILES A17-2/R41-2**

**Docket No. 50-387**

*Reference: PLA-4173, R.G. Byram to C.L. Miller, "Proposed Amendment No. 168 to License No. NPF-14: Power Uprate With Increased Core Flow", dated July 27, 1994.*

Dear Sirs:

In response to a request from Mr. C. Poslusny, this letter is being transmitted in order to document an overview of PP&L's current plans for gathering data on the hydraulic response of the reactor recirculation system. This testing will occur during Unit 1 Power Uprate startup testing following the Unit 1 8th refueling and inspection outage. Our overall startup test plan was provided in the referenced proposed amendment submittal.

As the NRC staff is aware, PP&L performed testing of this nature on Susquehanna Unit 2 in December, 1994. General information describing the Unit 2 Test Procedure has been provided to the NRC. For Unit 1, PP&L is currently preparing a very similar procedure, with changes that reflect Unit differences between Units 1 and 2, and the experience gained from the Unit 2 testing. Items of particular note to the NRC regarding Unit 1 testing are as follows:

- The test procedure will require Reactor Recirculation pump speeds and core flow to be changed in small incremental steps, probably 2 Mlb/hr, both in the increasing and decreasing directions. It should be noted that data gathering in the decreasing direction was waived during Unit 2 testing due to sufficient data being gathered during testing at increasing speeds/flows. A similar decision may be made on Unit 1 depending on what occurs during the test.

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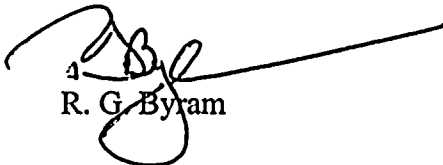


- Data will be gathered with pump speed matched and mismatched at various speed/flow increments, up to the proposed limit of 108 Mlb/hr core flow.
- Except for the purposes of testing, PP&L will not maintain reactor recirculation pump speeds above an administrative limit of 1515 rpm (equivalent to 103 Mlb/hr core flow) until our root cause evaluation is completed and the effects of the vibration phenomenon are understood.
- Appropriate monitoring instrumentation will be added inside containment in order to gather information about potential noise transmission paths.

PP&L may find that minor changes to our test plans are appropriate based on further information and/or actual test results. Such changes will be made in accordance with PP&L procedures, consistent with NRC regulations.

If you have any questions on this material, please contact Mr. R. Sgarro at (610) 774-7914.

Very truly yours,



R. G. Byram

cc: NRC Region I  
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Mr. W.P. Dornsife, PA DER