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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
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 KENYON, B.D. Pennsylvania Power & Light Co.  
 RECIPIENT NAME RECIPIENT AFFILIATION  
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards application for Amend 8 to License NPF-14, changing Tech Spec Table 4.8.1.1.2-2 re staggered start of emergency svc water pumps to mitigate waterhammer.

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Pennsylvania Power & Light Company

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Bruce D. Kenyon  
Vice President-Nuclear Operations  
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September 24, 1982

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

SUSQUEHANNA STEAM ELECTRIC STATION  
PROPOSED AMENDMENT 8 TO LICENSE NO. NPF-14  
ER 100450 FILE 841-8  
PLA-1314

Docket No. 50-387

Dear Mr. Schwencer:

Item 3.a. of Attachment 1 to License No. NPF-14 requires PP&L to correct the Emergency Service Water (ESW) water hammer (reported in PLA-1129 dated June 18, 1982) before exceeding 5% power.

Item (2) under "Corrective Action Being Taken" in the second interim report on the issue (PLA-1258, August 27, 1982) describes the staggered start of the ESW pumps in order to mitigate water hammer.

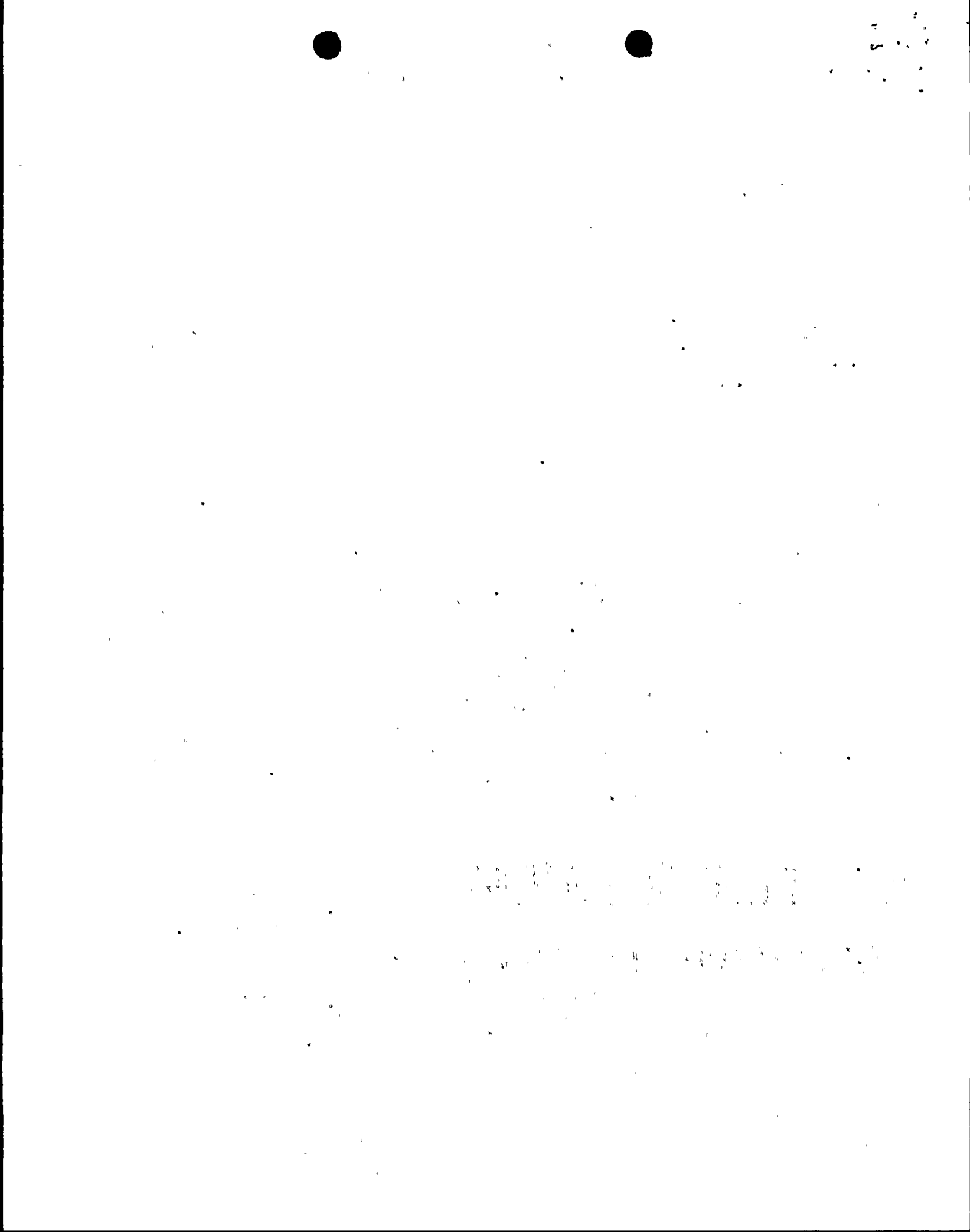
The purpose of this letter is to propose a change to Appendix A of License No. NPF-14, the Susquehanna SES Unit 1 Technical Specifications, in order to support the referenced corrective action. The proposed change is provided as Attachment 1 to this letter.

The following information is provided in support of this proposal:

1. Nominally, the A&B ESW pumps will be started at 40 seconds, the C pump at 53 seconds, and the D pump at 57 seconds after a diesel start. The pumps previously started simultaneously at 55 seconds. This change helps to mitigate water hammer through a more gradual filling of the system.
2. The staggered start of the ESW pumps does not increase the probability of occurrence or the consequences of an accident or malfunction of equipment related to safety as previously evaluated in the FSAR. Specifically, based on a review of plant voltage studies and the diesel generator load sequence study, the proposed change does not affect the integrity of the

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Mr. A. Schwencer

equipment being cooled, and adversely affects neither the diesel generator loading nor the 4kV system if offsite power is available. These conclusions are valid for the full range of LOCAs as well as LOOP, and simultaneous LOCA/LOOP.

This amendment is Class III in nature and the proper fee is enclosed.

Very truly yours,



B. D. Kenyon  
Vice President-Nuclear Operations

RRS/mks

cc: R. L. Perch - NRC

