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MILLER, C.L.      Project Directorate I-2

SUBJECT: Forwards Proposed Amend 162 to License NPF-14, revising TS  
4.4.1.1.2.6 footnote re acquisition of single loop baseline  
data.

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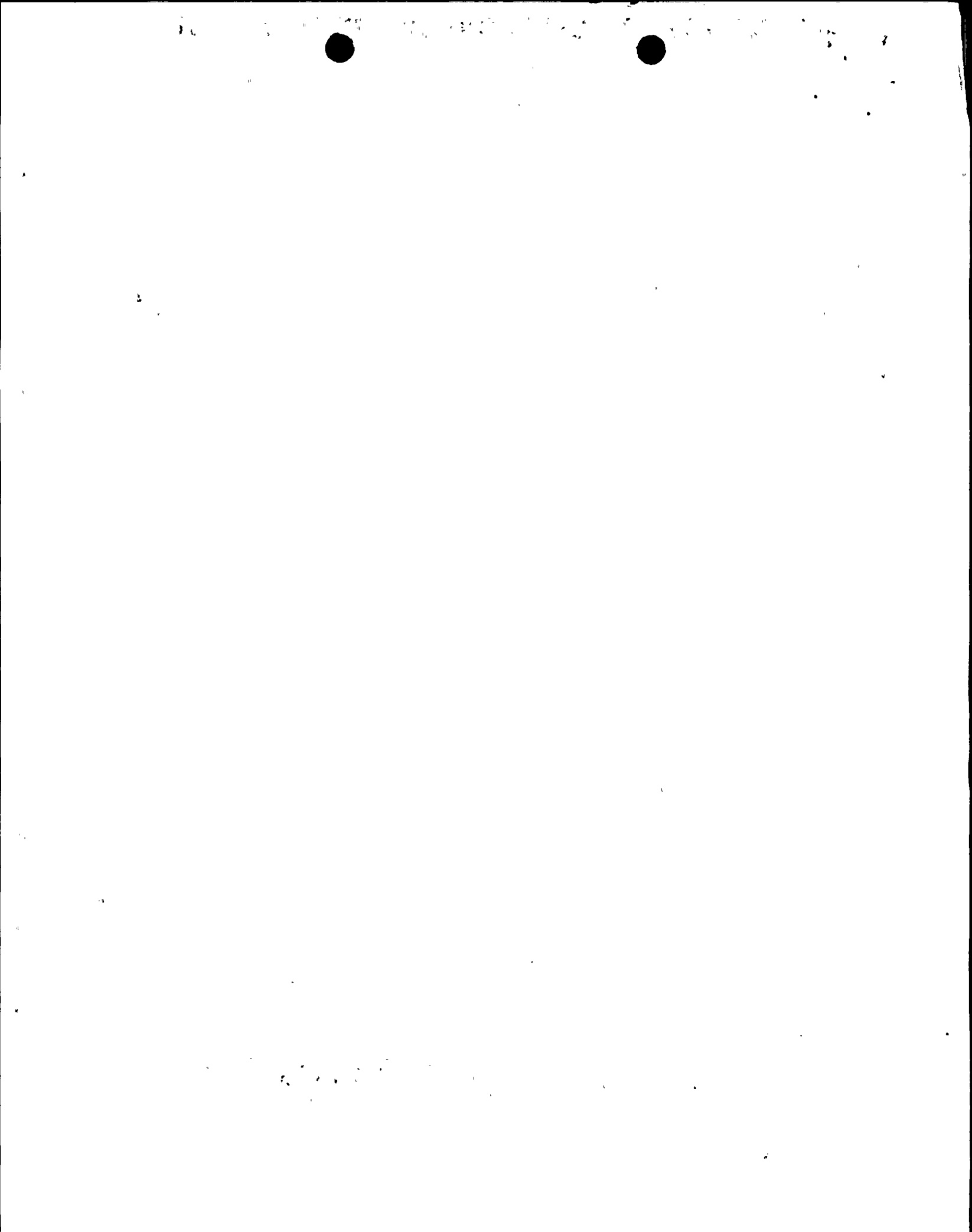
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JUL 21 1993

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  
PROPOSED AMENDMENT 162 TO LICENSE NO. NPF-14 :  
REVISION OF SURVEILLANCE REQUIREMENTS FOR  
ACQUISITION OF SINGLE LOOP BASELINE DATA  
PLA-4005**

**FILES A17-2/R41-2**

**Docket No. 50-387**

Dear Mr. Miller:

The purpose of this letter is to transmit a proposed amendment to the Susquehanna SES Unit 1 Technical Specifications. The proposed change reflects a change to the requirements for acquisition of single loop baseline data from during startup testing following each refueling outage to at least once per 18 months (555 days).

**BACKGROUND**

Susquehanna Technical Specifications require verification of jet pump integrity to assure the core could be flooded to two thirds core height following a design basis loss of coolant accident. Technical Specification 4.4.1.1.2.6 ensures the removable portion of the jet pump between the top of the internal riser and the diffuser is intact.

General Electric Service Information Letter 330 (G.E. SIL 330) describes methods for assuring jet pump operability during normal two loop operation by developing baseline or "normal" jet pump characteristics with which to compare weekly and daily operational data. The characteristic curves are different for single loop operation (SLO) than two loop operation, and so baseline data must also be established for SLO. Susquehanna Technical Specifications for Unit 1 currently require the acquisition of SLO baseline data during startup following each refueling outage. For Unit 2, acquisition of SLO baseline data has been changed to at least once per 18 months (555 days) as approved by NRC in the Unit 2 5RIO re-load analysis in Amendment 91 to License No. NPF-22 dated October 28, 1992.

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### DESCRIPTION OF CHANGE

The attached marked-up changes to Technical Specification Section 4.4.1.1.2.6 footnote ### reflect the change to the requirements for acquisition of single loop baseline data from during startup testing following each refueling outage to at least once per 18 months (555 days).

### SAFETY ANALYSIS

Sufficient jet pump baseline data has been gathered at Susquehanna SES that the distribution of data is well defined and is not changing from cycle to cycle. The recirculation pump flow vs. speed, the total core flow vs. recirculation pump flow, and the single loop jet pump distribution curves have had no major adjustments since the reactors have consisted of full cores of the Siemens 9x9-2 fuel design. Testing and gathering of data will be accomplished in the same manner as in the past, albeit according to a different schedule. It is proposed that single loop data will be taken at least once per 18 months (555 days) when SLO is scheduled for maintenance reasons. The proposed change is consistent with the intent of Technical Specifications and the G.E. recommendations cited above, as well as being consistent with the previously NRC approved changes for acquisition of single loop baseline data for Unit 2.

### NO SIGNIFICANT HAZARDS CONSIDERATION

The proposed change does not:

1. Involve a significant increase in the probability or consequences of an accident previously evaluated.

The proposed changes are administrative in nature and do not involve any change to the configuration or method of operation of any plant equipment that is used to mitigate the consequences of an accident nor alter the conditions or assumptions in any of the Final Safety Analysis Report (FSAR) accident analyses. The revised testing schedule eliminates unnecessary plant cycling while taking advantage of SLO which is typically scheduled 2 or 3 times per cycle for maintenance reasons. In addition, since the plant must be placed in SLO at low core flow to obtain the desired baseline data the revised testing schedule minimizes low core flow/power operation where reactor instability is a concern by eliminating the requirement to acquire single loop baseline data during startup following each refueling outage. Therefore, it can be concluded that the proposed changes do not involve a significant increase in the probability or consequences of an accident previously evaluated.

2. Create the possibility of a new or different kind of accident from any accident previously evaluated.

No new failure modes have been defined for any plant system or component important to safety nor has any new limiting failure been identified as a result of the proposed changes. There will be no change in the type of testing being done. Therefore, it can be concluded that the proposed changes do not create the possibility of a new or different kind of accident from those previously evaluated.

3. Involve a significant reduction in a margin of safety.


The proposed changes are administrative in nature. The same type of testing will be performed as before. It is intended that single loop data will be taken a least once per 18 months (555 days) when SLO is scheduled for maintenance reasons rather than entering SLO for no reason other than to comply with Technical Specifications. Administrative controls will be established to ensure SLO baseline data will be recorded under the following conditions: 1) beginning of cycle when discharged bundles are replaced with bundles of a different mechanical or thermal-hydraulic design, 2) when reactor systems or core operating strategies which can affect the baseline data are modified, and 3) if it is determined that dual loop baseline data has changed significantly. Therefore, it can be concluded that the proposed changes do not involve a significant reduction in a margin of safety.

### IMPLEMENTATION

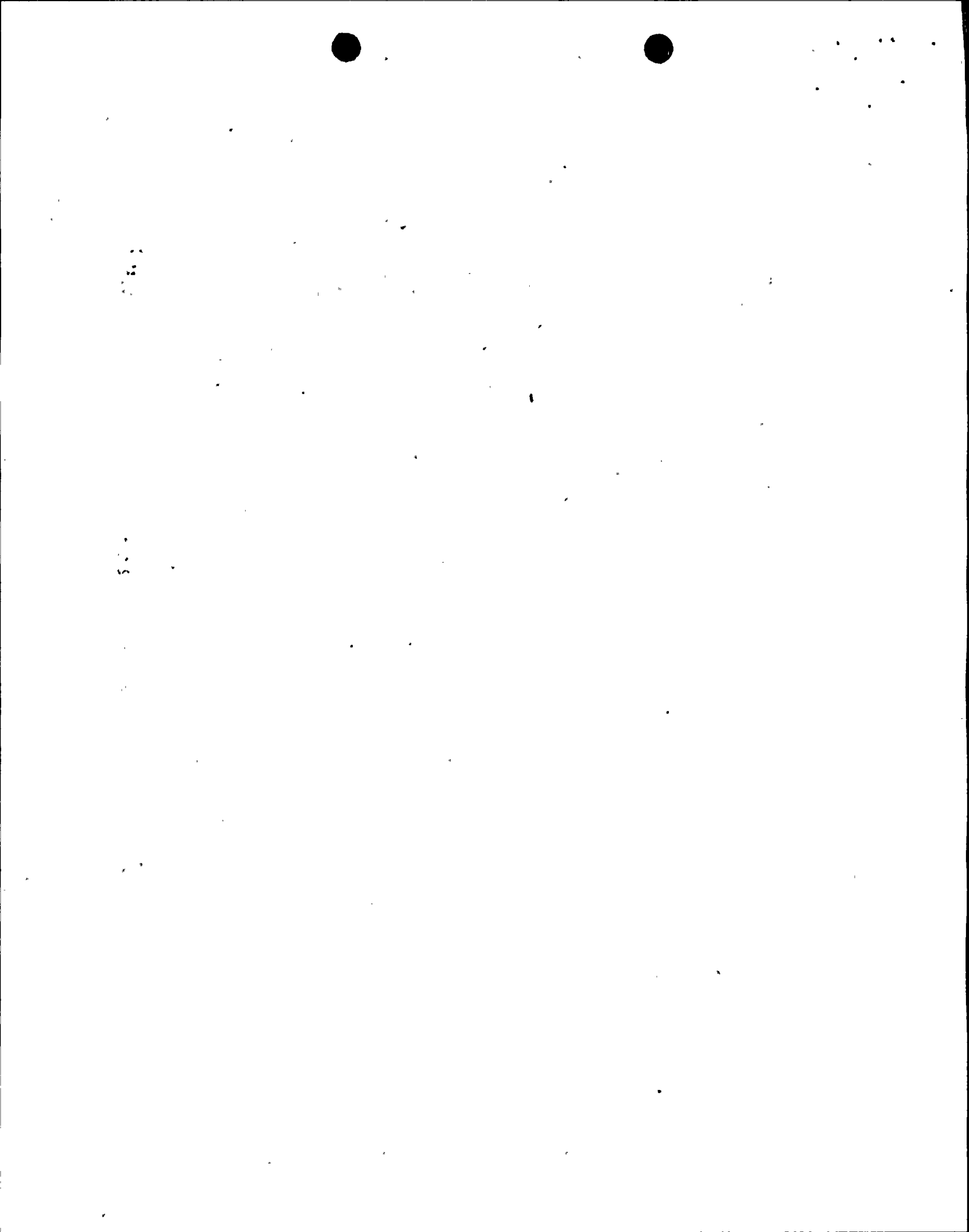
PP&L requests that this amendment be approved prior to the end of the U1 7RIO currently scheduled for completion on November 4, 1993.

Questions regarding the above proposal can be directed to Mr. R.R. Sgarro at (215) 774-7914.

Very truly yours,

  
R. G. Byram

Attachment



cc: NRC Document Control Desk (original)  
NRC Region I  
Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES  
Mr. R. J. Clark, NRC Sr. Project Manager - Rockville