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ACCESSION NBR: 8308010384 DOC. DATE: 83/07/26 NOTARIZED: NO DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
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 CURTIS, N.W. Pennsylvania Power & Light Co.  
 RECIPIENT NAME RECIPIENT AFFILIATION  
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Provides addl info to support proposed Amend 27 to License, NPF-14 re main steam line radiation high trip setpoint. Trip setting of seven times background would increase margin of safety over accident analyses.

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NOTES: 1cv NMSS/FCAF/PM.

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# Pennsylvania Power & Light Company

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Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215/770-7501

July 26, 1983

Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
ADDITIONAL INFORMATION TO SUPPORT  
PROPOSED AMENDMENT NO. 27 TO LICENSE  
NO. NPF-14  
ER 100450 FILE 841  
PLA-1760

Docket No. 50-387

Dear Mr. Schwencer:

The purpose of this letter is to provide, as requested by your staff, additional information to support our proposed Amendment No. 27.

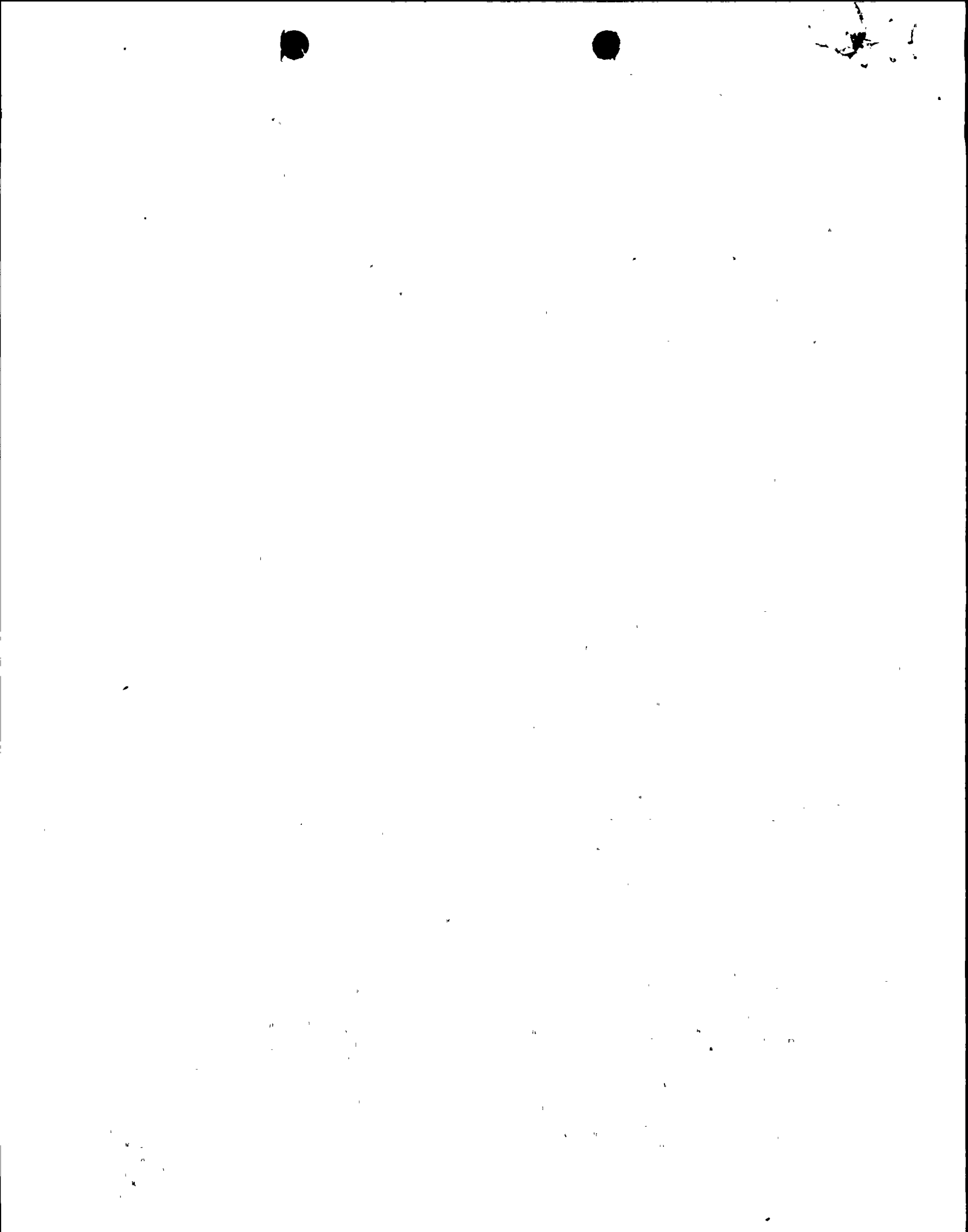
Pennsylvania Power & Light Company has determined that no significant safety hazard exists since the proposed amendment does not:

1. Involve a significant increase in the probability or consequences of an accident previously evaluated because the Main Steamline Radiation-High Trip Setpoint is not considered in any accident analysis;
2. Create the possibility of a new or different kind of accident from any accident previously evaluated since this trip setpoint is not considered to function in any accident analysis; nor
3. Involve a significant reduction in margin of safety since the trip setpoint is not considered in any accident analysis. A setpoint of seven times normal background would detect the consequences of a failed fuel bundle and isolate the main steamline before the off site doses would reach those doses calculated for the Control Rod Drop Accident. Therefore, a trip setting of seven times background would increase the margin of safety over that of the analyses.

PP&L is requesting this amendment to be processed on an expedited basis since we would like to complete testing and come to a final resolution of the problem as quickly as possible without having to derate the plant for an extended period. Reactor power would have to be reduced to ensure that the reactor

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would not trip while putting the condensate demineralizers into service with the setpoint at its present setting. The raising of the setpoint would allow us to operate the condensate demineralizer system normally and conclude our testing and resolution of the problem as soon as possible. Failure to incorporate an increase in the Main Steamline Radiation-High setpoint promptly will have the effect of either (1) delaying solution of the problem, or (2) if we elect to increase power level to 100% with the present setpoint, increase the risk of plant transients, safety system challenges and impact on the fatigue life of the reactor vessel.

Very truly yours,



N. W. Curtis  
Vice President-Engineering & Construction-Nuclear

cc: Mr. R. L. Perch - U.S. NRC

