

July 14, 1992

Docket No. 50-387

Mr. Harold W. Keiser  
Senior Vice President-Nuclear  
Pennsylvania Power and Light Company  
2 North Ninth Street  
Allentown, Pennsylvania 18101

Dear Mr. Keiser:

SUBJECT: FLOW DEPENDENT MINIMUM CRITICAL POWER RATIO (MCPR), SUSQUEHANNA  
STEAM ELECTRIC STATION, UNIT 1 (TAC NO. M83360)

The Commission has issued the enclosed Amendment No. 122 to Facility Operating License No. NPF-14 for the Susquehanna Steam Electric Station, Unit 1. This amendment is in response to your letter dated May 21, 1992.

This amendment would make changes to the Unit 1 Technical Specifications to correct the flow dependent MCPR Operating limits to be consistent with the licensee's NRC-approved methodology.

A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Biweekly Federal Register Notice.

Sincerely,

/S/

George F. Maxwell, Acting Project Manager  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 122 to License No. NPF-14
2. Safety Evaluation

cc w/enclosures:

See next page

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JCalvo	GHill(4), P1-22	OC/LFMB	
CMiller	Wanda Jones, 7103	EWenzinger, RGN-I	

\*Previous Concurrence

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NAME	: MO'Brien	: GMaxwell	: rb:RJones	: JHull	: CMiller	:
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Sincerely,

James J. Raleigh, Project Manager  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

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- 2. Safety Evaluation

cc w/enclosures:  
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OFC	:PDI-2/LA	:PDI-2/PM	:SRXB/BC	:OGC <sup>as revised</sup>	:PDI-2/D	:
NAME	:MO'Brien	:JRaleigh	:rb:RJones	:JHull	:CMiller	:
DATE	: 5/27/92	: 5/27/92	: 6/1/92	: 6/1/92	: 6/1/92	:



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555

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Sincerely,

A handwritten signature in black ink that reads "George F. Maxwell".

George F. Maxwell, Acting Project Manager  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 122 to License No. NPF-14
2. Safety Evaluation

cc w/enclosures:  
See next page

Mr. Harold W. Keiser  
Pennsylvania Power & Light Company

Susquehanna Steam Electric Station,  
Units 1 & 2

cc:

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212 Locust Street  
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Harrisburg, Pennsylvania 17108-1266



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

PENNSYLVANIA POWER & LIGHT COMPANY  
ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-387

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 122  
License No. NPF-14

1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
  - A. The application for the amendment filed by the Pennsylvania Power & Light Company, dated May 21, 1992 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of the Facility Operating License No. NPF-14 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 122 and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. PP&L shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance and is to be implemented within 30 days after its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*Charles L. Miller*

Charles L. Miller, Director  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: July 14, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 122

FACILITY OPERATING LICENSE NO. NPF-14

DOCKET NO. 50-387

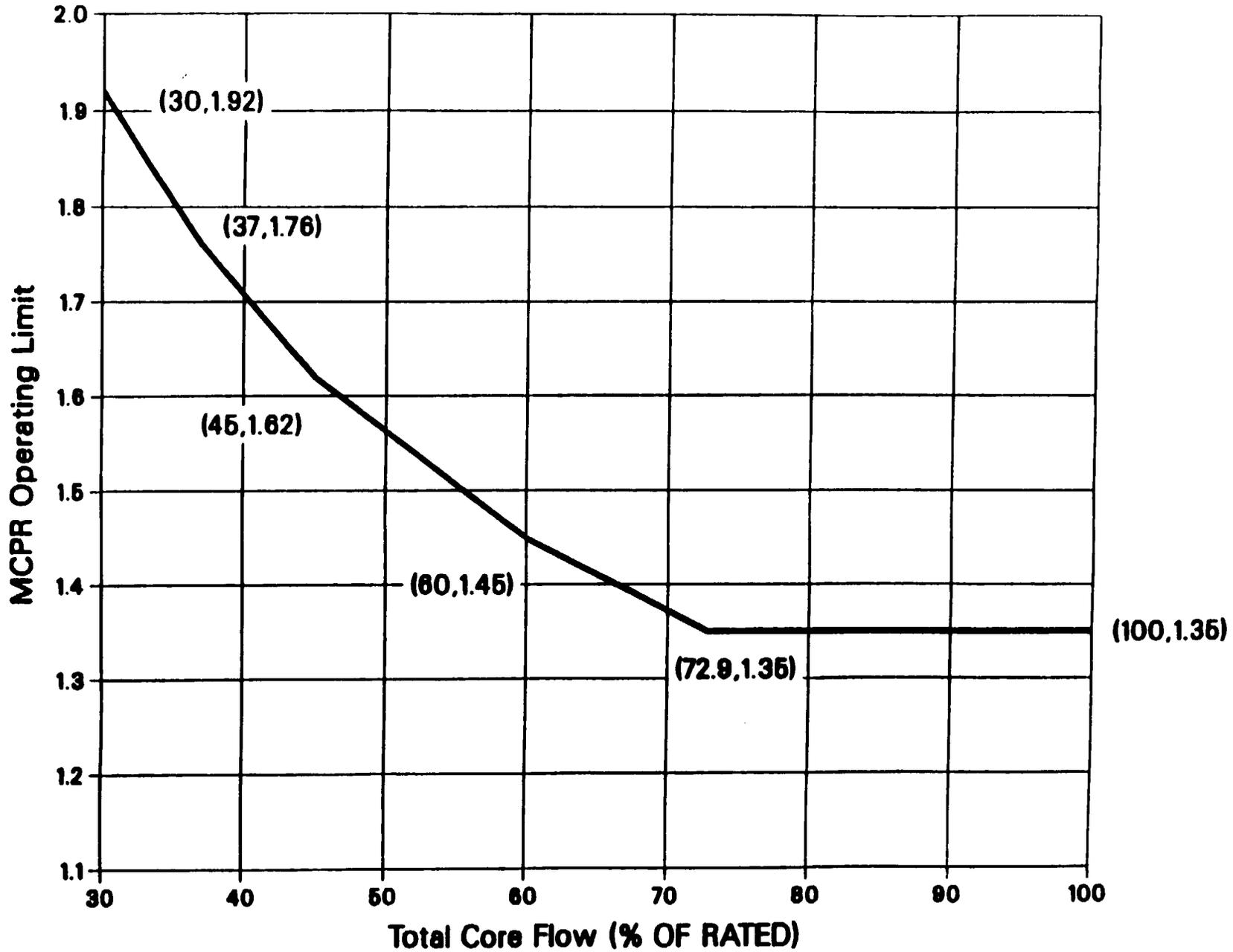
Replace the following pages of the Appendix A Technical Specifications with enclosed pages. The revised page is identified by Amendment number and contains vertical lines indicating the area of change. The overleaf page is provided to maintain document completeness.\*

REMOVE

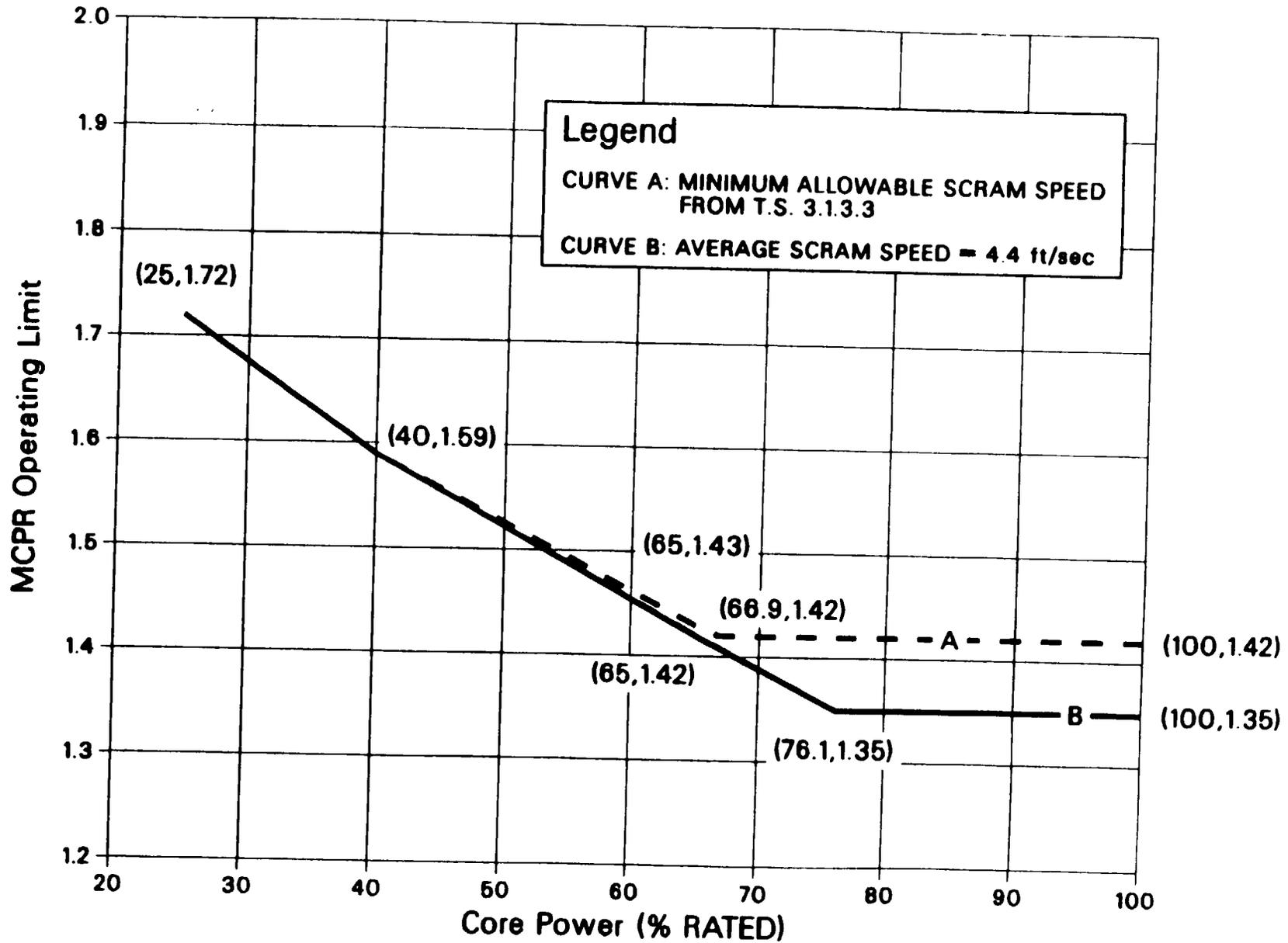
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**FLOW DEPENDENT MCPR OPERATING LIMIT**  
**FIGURE 3.2.3-1**



POWER DEPENDENT MCPR OPERATING LIMIT  
EOC-RPT AND MAIN TURBINE BYPASS OPERABLE  
FIGURE 3.2.3-2



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO.122TO FACILITY OPERATING LICENSE NO. NPF-14

PENNSYLVANIA POWER AND LIGHT COMPANY

ALLEGHENY ELECTRIC COOPERATIVE, INC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1

DOCKET NO. 50-354

1.0 INTRODUCTION

By letter dated May 21, 1992, the Pennsylvania Power and Light Company and Allegheny Electric Cooperative, Inc. (the licensees) submitted a request for changes to the Susquehanna Steam Electric Station, Unit 1, Technical Specifications (TS). The requested changes would make changes to the Unit 1 Technical Specifications to correct the flow dependent MCPR Operating Limits to be consistent with the licensee's NRC-approved methodology. Changes to the MCPR TS were approved as part of Amendment Number 118 to Operating License No. NPF-14. Amendment 118 was issued on May 7, 1992.

2.0 EVALUATION

After issuance of Amendment 118, the licensee discovered an error in the calculation of the Unit 1 Technical Specifications flow-dependent MCPR operating limit curve. The corrected MCPR Operating Limits were entered into the licensee's Powerplex core monitoring system on May 15, 1992 under administrative control and staff agreement. The licensee is currently operating under these corrected limits and is making this change to the Technical Specifications to make the corrections to the calculational error permanent.

The single calculational error affected TS Figure 3.2.3-1. The corrected Figure 3.2.3-1 is consistent with the proper implementation of the licensee's NRC-approved licensing methods in support of Unit 1 Cycle 7 operations. The new curve presented in Figure 3.2.3-1 is more restrictive over the entire range where the recirculation flow controller failure event transient is limiting.

The staff finds this change to be acceptable. The corrected Figure 3.2.3-1 will ensure reactor operation within its design basis and preserves the validity of the Unit 1 Cycle 7 reload safety analysis.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (57 FR 24675). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Raleigh

Date: July 14, 1992