

May 17, 1988

Docket No. 50-388

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

Dear Mr. Keiser:

SUBJECT: TECHNICAL SPECIFICATION CHANGES REFLECTING CANCELLATION OF DRYWELL
FAN MODIFICATIONS (TAC NO. 67901)

RE: SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2

The Commission has issued the enclosed Amendment No. 48 to Facility Operating License No. NPF-22 for the Susquehanna Steam Electric Station (SSES), Unit 2. This amendment is in response to your letter dated April 8, 1988.

This amendment revises the SSES Unit 2 Technical Specifications to cancel the changes previously approved in Amendment No. 36. That amendment was approved on June 5, 1987 and was intended to provide operational control on equipment which must be operable to ensure proper functioning of the new drywell cooling fans intended to be installed during the current refueling outage. Your letter dated April 8, 1988 states that you have now decided not to install the new drywell cooling fans and would, therefore, not need the Technical Specification changes approved in Amendment No. 36. We have completed our review of your request to change the drywell cooling fans Technical Specifications to those which existed prior to issuance of Amendment No. 36 and find the request to be acceptable.

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/

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 48 to License No. NPF-22
2. Safety Evaluation

cc w/enclosures:
See next page

PDI-2/CA
M'Brien
5/19/88

MU
PDI-2/PM
MThadani:tr
4/29/88

8805250330 880517
PDR ADOCK 05000388
PDR

PDI-2/D
WButler
5/17/88

OGC
BMBorderick
05/03/88

See enclosure in
the notice of
issuance

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

Walter R. Butler, Director
Project Directorate J-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 17, 1988

ADK-2/DA
MO'Brien
5/17/88

MJ
PDI-2/PM
MThadani:tr
4/28/88

*See concurrence in
the notice of issuance*
OGC
BMBorderick
05/03/88

PDI-2/D
WButler
5/17/88 *WB*

Mr. Harold W. Keiser
Pennsylvania Power & Light Company

Susquehanna Steam Electric Station
Units 1 & 2

cc:

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Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406



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

PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-388

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 48
License No. NPF-22

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 April 8, 1988 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-22 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. 48 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.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

Walter R. Butler, Director
Project Directorate J-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 17, 1988

PDI-2/LA
MO'Brien
5/17/88

ML
PDI-2/PM
MThadani:tr
4/28/88

*See concurrence in
the notice of issuance*

OGC
BMBorderick
05/03/88

PDI-2/D
WButler
5/17/88

WB

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, reading "Walter R. Butler".

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 17, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 48

FACILITY OPERATING LICENSE NO. NPF-22

DOCKET NO. 50-388

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

REMOVE

3/4 6-39
3/4 6-40

3/4 8-25
3/4 8-26

3/4 8-27
3/4 8-28

INSERT

3/4 6-39*
3/4 6-40

3/4 8-25*
3/4 8-26

3/4 8-27
3/4 8-28*

CONTAINMENT SYSTEMS

3/4.6.6 PRIMARY CONTAINMENT ATMOSPHERE CONTROL

DRYWELL AND SUPPRESSION CHAMBER HYDROGEN RECOMBINER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.6.6.1 Two drywell and two suppression chamber hydrogen recombiner systems shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

With one drywell and/or one suppression chamber hydrogen recombiner system inoperable, restore the inoperable system to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.6.6.1 Each drywell and suppression chamber hydrogen recombiner system shall be demonstrated OPERABLE:

- a. At least once per 6 months by energizing the recombiner system to at least 10 kw for ≥ 5 minutes.
- b. At least once per 18 months by:
 1. Performing a CHANNEL CALIBRATION of all recombiner operating instrumentation and control circuits.
 2. Verifying the integrity of all heater electrical circuits by performing a resistance to ground test following the above required energization. The resistance to ground for any heater phase shall be greater than or equal to 10,000 ohms.
 3. Verifying through a visual examination that there is no evidence of abnormal conditions within the recombiner enclosure; i.e., loose wiring or structural connections, deposits of foreign materials, etc.

CONTAINMENT SYSTEMS

DRYWELL AIR FLOW SYSTEM

LIMITING CONDITION FOR OPERATION

3.6.6.2 Drywell unit cooler fans 2V414A&B, 2V415A&B, and 2V416A&B shall be OPERABLE at low speed.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

- a. With one fan in one or more of the above pairs of fans inoperable at low speed, restore the inoperable fan(s) to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours.
- b. With both fans in any pair inoperable at low speed, follow the requirements of Specification 3.0.3.

SURVEILLANCE REQUIREMENTS

4.6.6.2 Each of the fans required above shall be demonstrated OPERABLE at least once per 92 days by:

- a. Starting each fan at low speed from the control room, and
- b. Verifying that each fan operates for at least 15 minutes.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

that current specified by the manufacturer for the test current. The magnetic (instantaneous) element shall be tested by injecting a current in excess of 120% of the pickup value of the magnetic (instantaneous) element and verifying that the circuit breaker trips instantaneously with no intentional time delay. Type HFB-M (magnetic only) circuit breaker testing shall also follow this procedure except that no thermal trip elements will be involved. Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

2. a. By selecting and functionally testing a representative sample of each type of fuse on a rotating basis. Each representative sample of fuses shall include at least 10% of all fuses of that type. The functional test shall consist of a non-destructive resistance measurement test which demonstrates that the fuse meets its manufacturer's design criteria. Fuses found inoperable during these functional testing shall be replaced with OPERABLE fuses prior to resuming operation. For each fuse found inoperable during these functional tests, an additional representative sample of at least 10% of all fuses of that type shall be functionally tested until no more failures are found or all fuses of that type have been functionally tested, or
- b. By replacing 100% of all required fuses.
3. Functionally testing each overcurrent relay listed in Table 3.8.4.1-1. Testing of these relays shall consist of injecting a current in excess of 120% of the nominal relay initiation current and measuring the response time. The measured response time shall be within $\pm 10\%$ of the specified value.
- b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.

*effective upon startup
following the unit 2 first
refueling outage*

TABLE 3.8.4.1-1

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

| <u>CIRCUIT BREAKER</u> <u>DESIGNATION</u> | <u>SYSTEM/EQUIPMENT POWERED</u> |
|--|---------------------------------|
| A. <u>Type HFB-TM*</u> | |
| 1. 2B237043 | Rx Recirc/HV-B31-2F023A |
| 2. 2B219022 | Rx Recirc/HV-B31-2F031A |
| 3. 2B219023 | Rx Recirc/HV-B31-2F032A |
| 4. 2B246011 | Rx Recirc/HV-B31-2F023B |
| 5. 2B229022 | Rx Recirc/HV-B31-2F031B |
| 6. 2B229023 | Rx Recirc/HV-B31-2F032B |
| 7. 2B236042 | Drywell Air Flow/2V411A |
| 8. 2B236032 | Drywell Air Flow/2V412A |
| 9. 2B236011 | Drywell Air Flow/2V413A |
| 10. 2B236033 | Drywell Air Flow/2V414A |
| 11. 2B236082 | Drywell Air Flow/2V415A |
| 12. 2B236043 | Drywell Air Flow/2V416A |
| 13. 2B236021 | Drywell Air Flow/2V417A |
| 14. 2B246091 | Drywell Air Flow/2V411B |
| 15. 2B246103 | Drywell Air Flow/2V412B |
| 16. 2B246102 | Drywell Air Flow/2V413B |
| 17. 2B246061 | Drywell Air Flow/2V414B |
| 18. 2B246072 | Drywell Air Flow/2V415B |
| 19. 2B246081 | Drywell Air Flow/2V416B |
| 20. 2B246051 | Drywell Air Flow/2V417B |

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

| <u>CIRCUIT BREAKER DESIGNATION</u> | <u>SYSTEM/EQUIPMENT POWERED</u> |
|--|---------------------------------|
| 21. 2B236052 | RHR/HV-E11-2F009 |
| 22. 2B237073 | RHR/HV-E11-2F022 |
| 23. 2B237082 | HPCI/HV-E41-2F002 |
| 24. 2B253021 | NSSS/HV-B21-2F011A |
| 25. 2B263023 | NSSS/HV-B21-2F011B |
| 26. 2B253041 | MSIV Hoist/TB0815 |
| 27. 2B263021 | MSIV Hoist/TB0816 |
| B. <u>Type HFB-M*</u> | |
| 1. 2B236023 | Cont. Inst. Gas/HV-22603 |
| 2. 2B246022 | RCIC/HV-E51-2F007 |
| 3. 2B237072 | NSSS/HV-B21-2F016 |
| 4. 2B236102 | NSSS/HV-B21-2F001 |
| 5. 2B246112 | NSSS/HV-B21-2F002 |
| 6. 2B246113 | NSSS/HV-B21-2F005 |
| 7. 2B236053 | RWCU/HV-G33-2F001 |
| 8. 2B253053 | RWCU/HV-G33-2F102 |
| 9. 2B263043 | RWCU/HV-G33-2F100 |
| 10. 2B263053 | RWCU/HV-G33-2F106 |
| 11. 2B263081 | RWCU/HV-G33-2F101 |
| 12. 2B246062 | RBCCW/HV-21346 |
| 13. 2B246012 | RBCCW/HV-21345 |
| 14. 2B253063 | Drywell Sump/2P402A |
| 15. 2B263071 | Drywell Sump/2P402B |

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

| <u>CIRCUIT BREAKER DESIGNATION</u> | <u>SYSTEM/EQUIPMENT POWERED</u> |
|--|---------------------------------|
| 16. 2B253043 | Drywell Sump/2P403A |
| 17. 2B263072 | Drywell Sump/2P403B |
| C. <u>Type KB-TM</u> | |
| 1. 2B216083 2B216092 | Cont. H2 Recombiner/2E440A |
| 2. 2B226102 2B226103 | Cont. H2 Recombiner/2E440B |
| 3. 2B236103 2B236121 | Cont. H2 Recombiner/2E440C |
| 4. 2B246032 2B246033 | Cont. H2 Recombiner/2E440D |
| D. <u>Circuit Breakers Tripped By Overcurrent Relays</u> | |
| 1. 2A20501 2A20502 | Rx Recirc/2P401A |
| 2. 2A20601 2A20602 | Rx Recirc/2P401B |

*Each circuit breaker designation represents two redundant circuit breakers.

*expedited upon startup
following the unit 2 first repair*



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 48 TO FACILITY OPERATING LICENSE NO. NPF-22

PENNSYLVANIA POWER & LIGHT COMPANY

ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-388

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2

1.0 INTRODUCTION

By letter dated April 8, 1988, Pennsylvania Power & Light Company (the licensee) requested an amendment to Facility Operating License No. NPF-22 for the Susquehanna Steam Electric Station (SSES), Unit 2. The proposed amendment would cancel the Technical Specification changes approved in Amendment No. 36. That Amendment provided approval of Technical Specification changes to support operational control for the proposed new drywell cooling fans which the licensee had planned to install during the second refueling outage. The April 8, 1988 letter indicated that the licensee no longer plans to install the new drywell cooling fans and would like the affected Technical Specification changes to be cancelled, and the requirements restored to as they existed prior to issuance of Amendment No. 36.

2.0 EVALUATION

The Technical Specification section 3.6.6.2 and Table 3.8.4.1-1 are being revised to reflect the licensee's decision not to install new drywell cooling fans. Since the Technical Specifications are being changed to reflect all the requirements which existed prior to June 5, 1987 approval of Amendment No. 36, they will continue to meet all the staff requirements which formed the prior basis of the Technical Specifications. Therefore, the proposed changes are acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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 nor environmental assessment need be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (53 FR 12625) on April 15, 1988 and consulted with the State of Pennsylvania. No public comments were received, and the State of Pennsylvania did not have any comments.

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: Mohan C. Thadani

Dated: May 17, 1988