



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. 74  
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 June 10, 1987, as supplemented by letters dated September 1 and September 24, 1987 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. 74 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.

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PDR ADDCK 05000387  
P PDR

3. This license amendment is effective upon startup for Unit 1 Cycle 4 operation.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 6, 1987

PDI-2/PA  
M. Brien  
10/28/87

MC2  
PDI-2/PM  
MThadani:ca  
10/26/87

OGC  
W. Wood  
11/2/87

PDI-2/D  
WButler  
11/6/87

WB



3. This license amendment is effective upon startup for Unit 1 Cycle 4 operation.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 6, 1987

ATTACHMENT TO LICENSE AMENDMENT NO. 74

FACILITY OPERATING LICENSE NO. NPF-14

DOCKET NO. 50-387

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the areas of change.

REMOVE

3/4 8-12

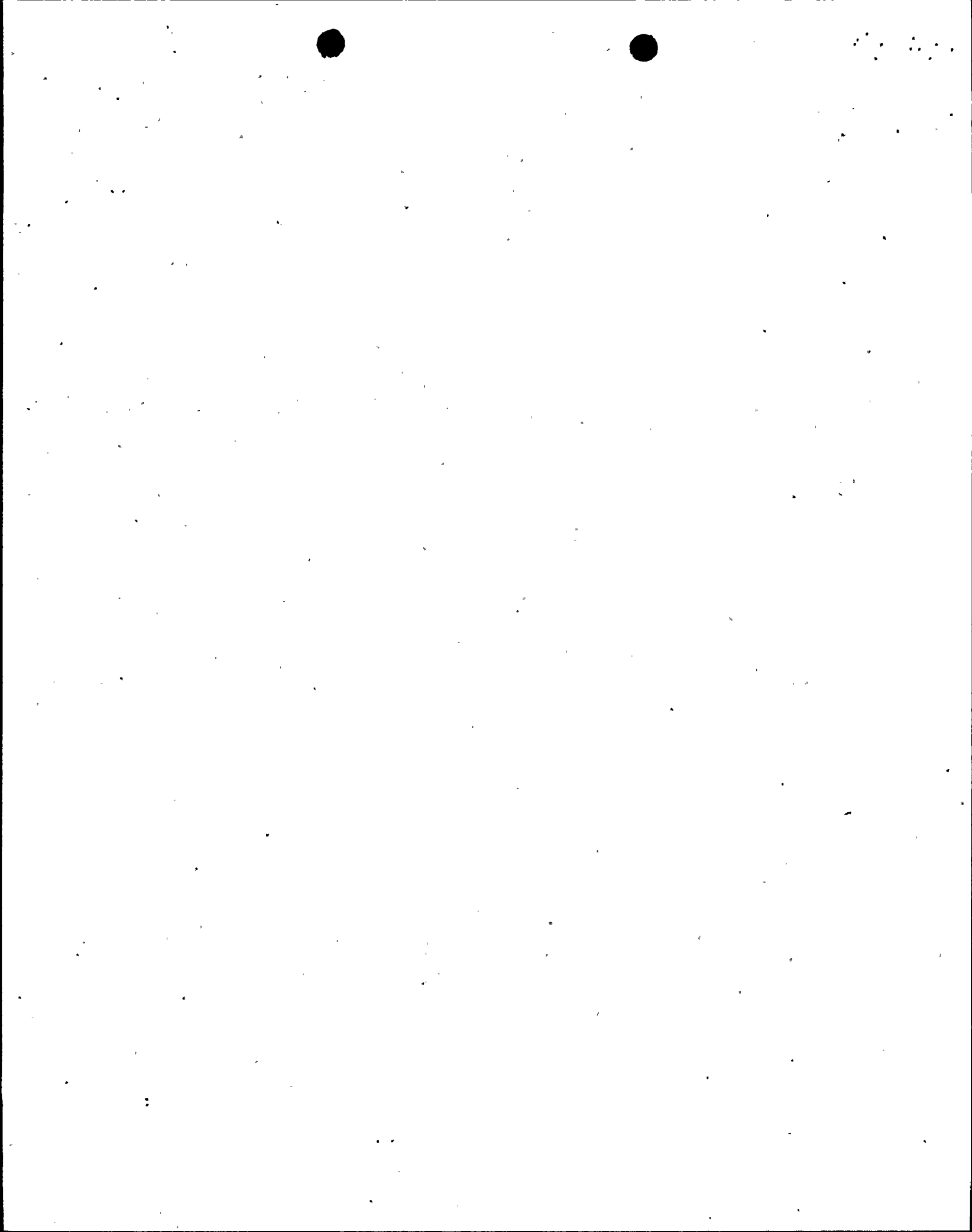
INSERT

3/4 8-12

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 18 months by verifying that:
1. The cells, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration,
  2. The cell-to-cell and terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material,
  3. The resistance of each cell-to-cell and terminal connection of each 125-volt and 250-volt battery is less than or equal to  $150 \times 10^{-6}$  ohm, and
  4. The battery charger, for at least 4 hours, will supply at least:
    - a) For the + 24-volt batteries, 25 amperes at a minimum of 25.7 volts.
    - b) For the 125-volt batteries, 100 amperes at a minimum of 127.8 volts.
    - c) For the 250-volt batteries, 300 amperes at a minimum of 255.6 volts.
    - d) For the 125-volt diesel generator E batteries, 200 amperes at a minimum of 127.8 volts.
- d. At least once per 18 months by verifying that either:
1. The battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for the design duty cycle when the battery is subjected to a battery service test, or
  2. The battery capacity is adequate to supply a dummy load of the following profile, which is verified to be greater than the actual emergency loads, while maintaining the battery terminal voltage greater than or equal to  $\pm 21$ , 105 or 210 volts, as applicable.
    - a) For + 24-volt battery banks 1D670, 1D670-1, 1D680 and 1D680-1, 9.37 amperes for the entire 4 hour test.
    - b) For 125-volt batteries:
      - 1) Channel A battery 1D612:  
343 amperes for 60 seconds  
114 amperes for the remainder of the 4 hour test
      - 2) Channel "B" battery 1D622:  
344 amperes for 60 seconds  
116 amperes for the remainder of the 4 hour test
      - 3) Channel "C" battery 1D632:  
318 amperes for 60 seconds  
100 amperes for the remainder of the 4 hour test
      - 4) Channel "D" battery 1D642:  
336 amperes for 60 seconds  
117 amperes for the remainder of the 4 hour test.





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PENNSYLVANIA POWER & LIGHT COMPANY

ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-388

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

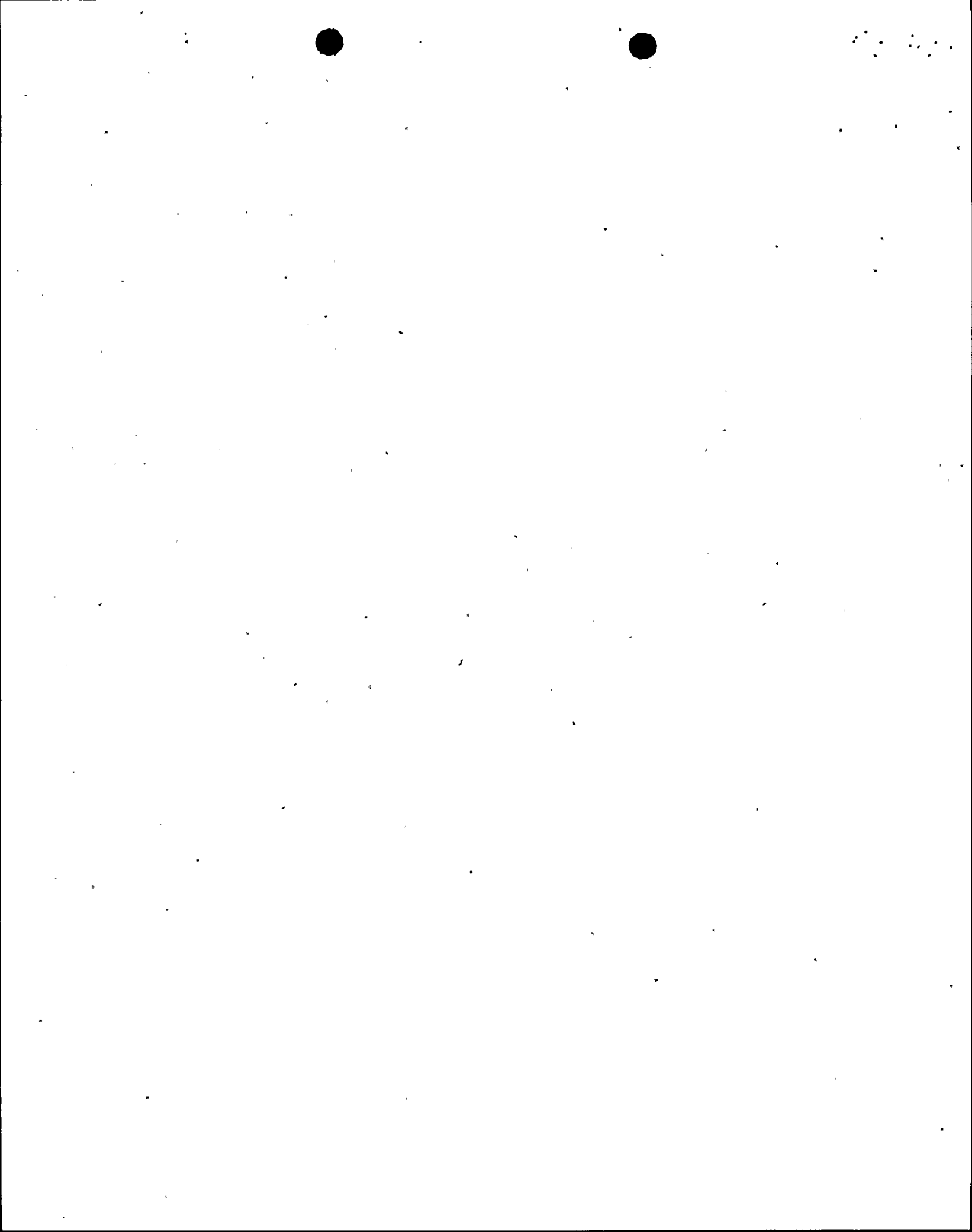
Amendment No. 40  
License No. NPF-22

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 June 10, 1987, as supplemented by letters dated September 1 and September 24, 1987 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. 40 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.





- This license amendment is effective upon Unit 1 startup for Cycle 4 operation.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 6, 1987

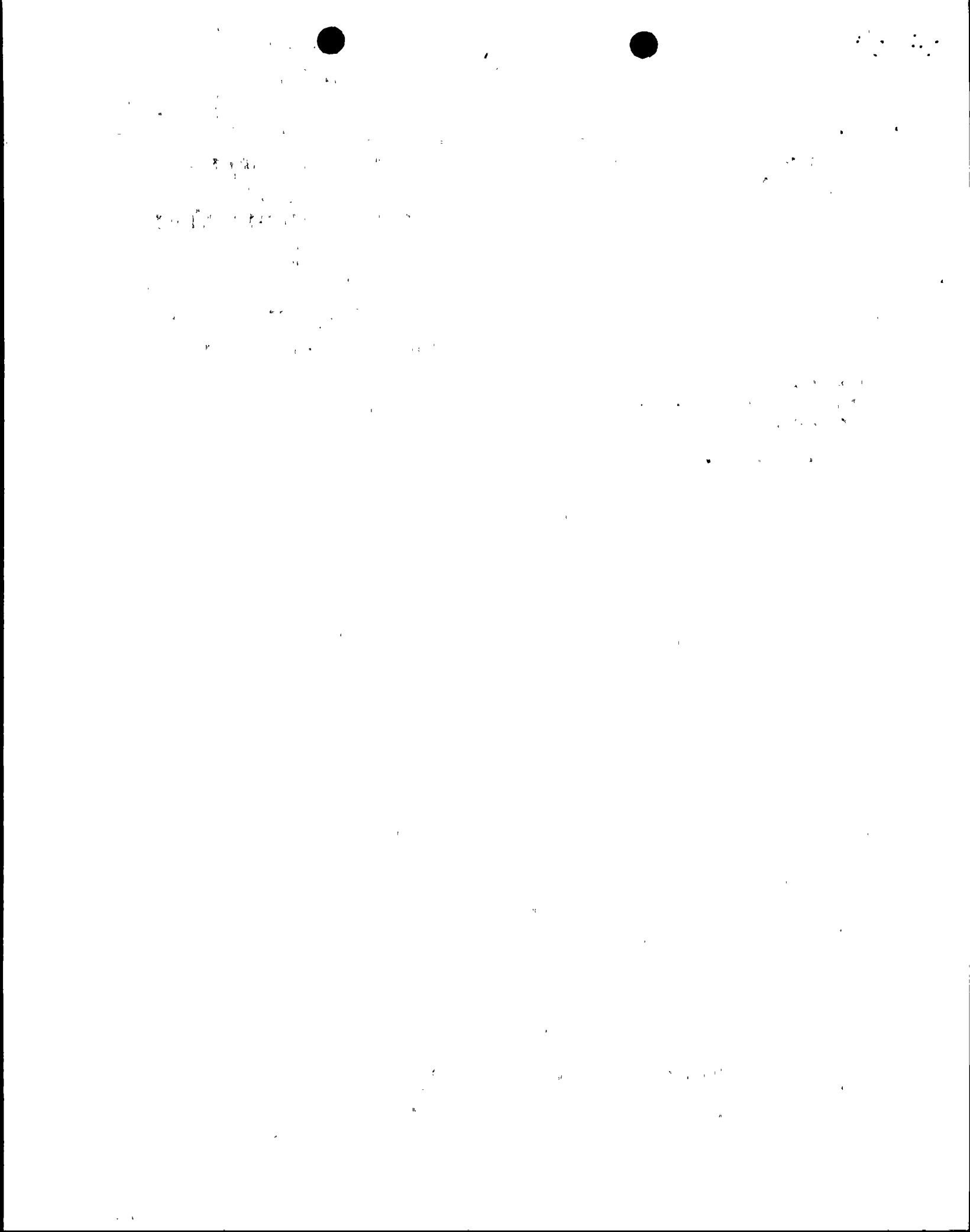
PDI-2/D  
MButler  
10/28/87

*MC*  
PDI-2/PM  
MThadani:ca  
10/28/87

OGC  
*W. W. W.*  
11/2/87


PDI-2/D  
WButler  
11/6/87

*WB*



3. This license amendment is effective upon Unit 1 startup for Cycle 4 operation.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 6, 1987

ATTACHMENT TO LICENSE AMENDMENT NO. 40

FACILITY OPERATING LICENSE NO. NPF-22

DOCKET NO. 50-388

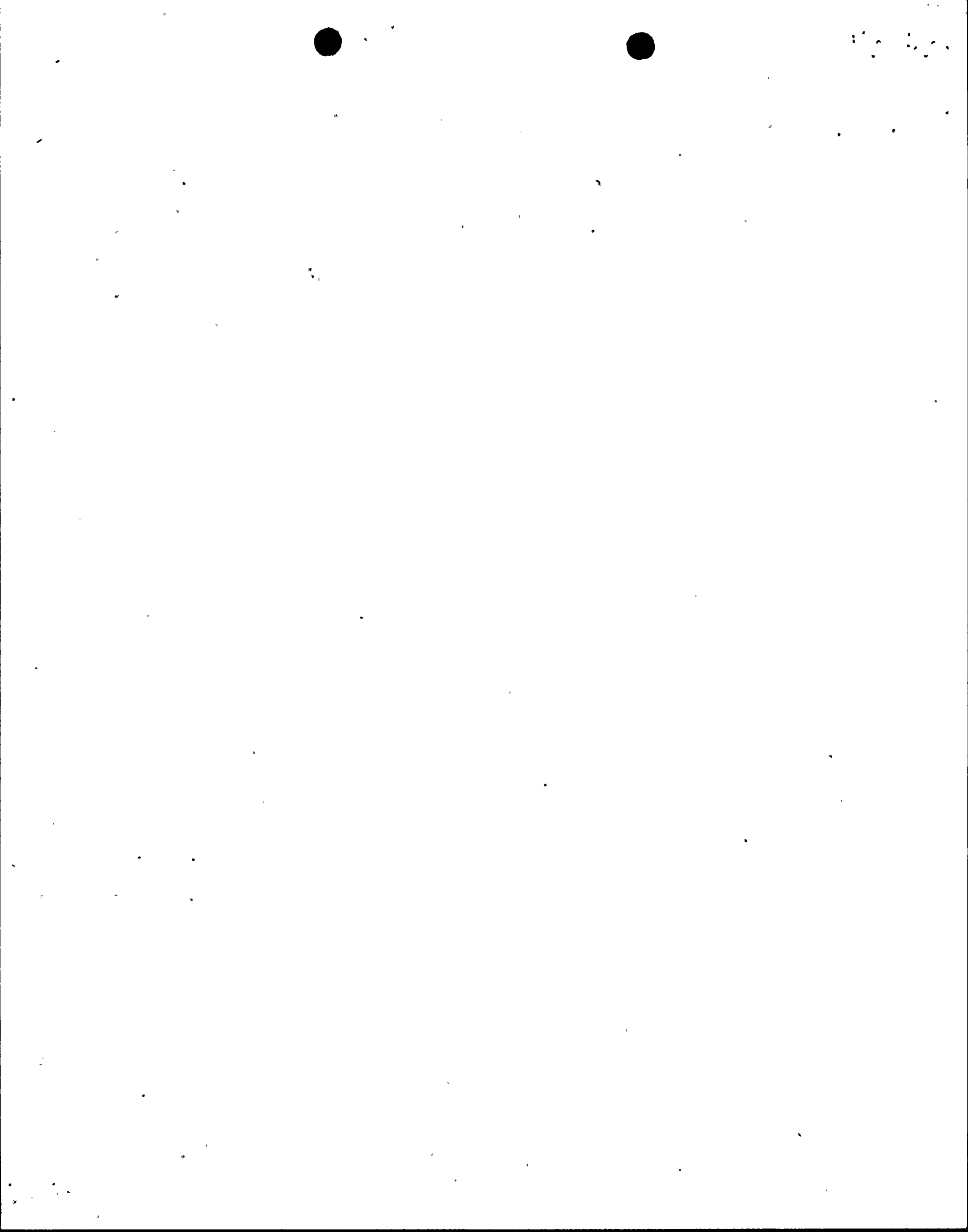
Replace the following pages of the Appendix A Technical Specifications with enclosed pages. The revised page is identified by Amendment number and contains vertical lines indicating the areas of change. The overleaf page is provided to maintain document completeness.\*

REMOVE

3/4 8-13  
3/4 8-13a\*

INSERT

3/4 8-13  
3/4 8-13a\*



## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 18 months by verifying that:
1. The cells, cell plates, and battery racks show no visual indication of physical damage or abnormal deterioration,
  2. The cell-to-cell and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material,
  3. The resistance of each cell-to-cell and terminal connection of each 125-volt and 250-volt battery is less than or equal to  $150 \times 10^{-6}$  ohm, and
  4. The battery charger, for at least 4 hours, will supply at least:
    - a) For the + 24-volt batteries, 25 amperes at a minimum of 25.7 volts.
    - b) For the 125-volt batteries, 100 amperes at a minimum of 127.8 volts.
    - c) For the 250-volt batteries, 300 amperes at a minimum of 255.6 volts.
    - d) For the 125 volt generator E batteries, 200 amperes at a minimum of 127.8 volts
- d. At least once per 18 months by verifying that either:
1. The battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for the design duty cycle when the battery is subjected to a battery service test, or
  2. The battery capacity is adequate to supply a dummy load of the following profile, which is verified to be greater than the actual emergency loads, while maintaining the battery terminal voltage greater than or equal to  $\pm 21, 105$  or 210 volts, as applicable.
    - a) For + 24-volt battery banks 2D670, 2D670-1, 2D680, and 2D680-1, 9.37 amperes for the entire 4-hour test.
    - b) For 125-volt batteries:
      - 1) Channel "A" battery 1D612: 343 amperes for 60 seconds  
114 amperes for the remainder of the 4 hour test
      - 2) Channel "B" battery 1D622: 344 amperes for 60 seconds  
116 amperes for the remainder of the 4 hour test
      - 3) Channel "C" battery 1D632: 318 amperes for 60 seconds  
100 amperes for the remainder of the 4 hour test
      - 4) Channel "D" battery 1D642: 336 amperes for 60 seconds  
117 amperes for the remainder of the 4 hour test.
      - 5) Channel "A" battery 2D612: 328 amperes for 60 seconds  
112 amperes for the remainder of the 4 hour test
      - 6) Channel "B" battery 2D622: 326 amperes for 60 seconds  
110 amperes for the remainder of the 4 hour test

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- 7) Channel "C" battery 2D632: 343 amperes for 60 seconds  
128 amperes for the remainder of the 4 hour test
  - 8) Channel "D" battery 2D642: 326 amperes for 60 seconds  
111 amperes for the remainder of the 4 hour test
  - 9) Channel "H" battery 0D595: 286 amperes for the first  
60 seconds, 95 amperes for the next 238 minutes,  
155 amperes for the last minute of the 4 hour test.
- c) For 250-volt batteries:
- 1) Battery bank 2D650:  
458 amperes for 60 seconds  
251 amperes for 239 minutes
  - 2) Battery bank 2D660:  
1119 amperes for 60 seconds  
244 amperes for 239 minutes
- e. At least once per 60 months by verifying that the battery capacity is at least 80% of the manufacturer's rating when subjected to a performance discharge test. Once per 60-month interval, this performance discharge test may be performed in lieu of the battery service test.
- f. Annual performance discharge tests of battery capacity shall be given to any battery that shows signs of degradation or has reached 85% of the service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its average on previous performance tests, or is below 90% of the manufacturer's rating.