

REGULATORY DOCUMENT FILE COPY

Docket Nos. 50-237
and 50-249
LS05-80-12-052

DECEMBER 29 1980

Mr. J. S. Abel
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

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Dear Mr. Abel:

The Commission has issued the enclosed Amendment No. 52 to Provisional Operating License No. DPR-19 for Dresden Station Unit No. 2 and Amendment No. 46 to Facility Operating License No. DPR-25 for Dresden Station Unit No. 3. The amendments are in response to your letter of December 5, 1980.

The amendments authorize a one-time operation for 48 hours with plant chimney monitoring systems out of service to permit the installation of monitoring improvements required by the NRC staff. During the period that the chimney monitors are inoperative, additional measures will be taken to provide an equivalent level of protection against an undetected release of airborne radioactivity.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by
Dennis M. Crutchfield

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Enclosures:

1. Amendment No. 52 to DPR-19
2. Amendment No. 46 to DPR-25
3. Safety Evaluation
4. Notice of Issuance

cc w/enclosures:
See next page

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DL:ORB #5/C
DL:ORB #2/PM
DL:ORB #2/LA
DL:ORB #2/C...
JOlshinski 12/23/80
RBevan 12/18/80
ECase 12/18/80
Tippolito 12/24/80

OFFICE	DL:ORB #5/LA	DL:ORB #5/PM	DL:ORB #2/LA	DL:ORB #2/PM	OELD	DL:ORB #2/C...
SURNAME	HSmith	PWO'Connor:rj	SNorris	RBevan	Godard	Tippolito
DATE	12/16/80	12/16/80	12/16/80	12/23/80	12/18/80	12/24/80



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

December 29, 1980

Docket Nos. 50-237
and 50-249
LS05-80-12-052

Mr. J. S. Abel
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Abel:

The Commission has issued the enclosed Amendment No. 52 to Provisional Operating License No. DPR-19 for Dresden Station Unit No. 2 and Amendment No. 46 to Facility Operating License No. DPR-25 for Dresden Station Unit No. 3. The amendments are in response to your letter of December 5, 1980.

The amendments authorize a one-time operation for 48 hours with plant chimney monitoring systems out of service to permit the installation of monitoring improvements required by the NRC staff. During the period that the chimney monitors are inoperative, additional measures will be taken to provide an equivalent level of protection against an undetected release of airborne radioactivity.

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Sincerely,


Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Enclosures:

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cc w/enclosures:
See next page

810123 n 451

Mr. J. S. Abel

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December 29, 1980

cc w/enclosures:
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Morris, Illinois 60451

Chairman
Board of Supervisors of
Grundy County
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Morris, Illinois 60450

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Raleigh, North Carolina 27612

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Director, Standards and Criteria
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U. S. Environmental Protection
Agency
Washington, D. C. 20460

U. S. Environmental Protection
Agency
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Dr. Forrest J. Remick
305 East Hamilton Avenue
State College, Pennsylvania 16801



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-237

DRESDEN STATION UNIT NO. 2

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 52
License No. DPR-19

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated December 5, 1980, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and 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 rules and 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;
 - 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.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 3.B of Provisional Operating License No. DPR-19 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 52, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

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

FOR THE NUCLEAR REGULATORY COMMISSION



Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 29, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 52

PROVISIONAL OPERATING LICENSE NO. DPR-19

DOCKET NO. 50-237

Revise the Appendix "A" Technical Specifications by removing Page 133a and replacing it with the attached revised Page 133a.

3.8 LIMITING CONDITION FOR OPERATION

The Unit 2/3 plant chimney gas sampling system may be out of service for 48 hours for the purpose of installing the high range noble gas monitor as long as the following conditions are satisfied:

- a. Both units are at steady state conditions with the recombiners and charcoal adsorbers in service for the operating unit(s).
- b. The chimney release rate must be shown by calculation to be less than the limits of 3.8.A.2.a. and b., assuming the charcoal adsorbers are bypassed on both units.
- c. Both offgas monitors on Unit 2 and Unit 3 must be operational and the monitor reading correlated to the chimney release rate based on the conservative assumption of both units' charcoal adsorbers being bypassed.
- d. If the provisions of 3.8.A.1.a, b or c cannot be met, an orderly load reduction of the unit(s) shall be initiated immediately.

Due to the existence of Dresden Unit 1 and two Dresden Unit 2/3 stacks in close vicinity, a set of equations are needed to express the airborne effluents limits. The symbols in the equations stand for the following:

Q_1 = release rate from Unit 1 plant chimney

Q_2 = release rate from Units 2 and 3 plant chimney
with only Unit 2 or only Unit 3 operating (not both)

$Q_{2,3}$ = release rate from Units 2 and 3 plant chimney
with both units operating

Q_{RS} = release rate from Units 2 and 3 reactor building
ventilation stack

4.8 SURVEILLANCE REQUIREMENT



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-249

DRESDEN STATION UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 46
License No. DPR-25

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated December 5, 1980, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and 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 rules and 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;
 - 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.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 3.B of Facility Operating License No. DPR-25 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 46, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

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

FOR THE NUCLEAR REGULATORY COMMISSION



Thomas A. Ippolito, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 29, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 46

FACILITY OPERATING LICENSE NO. DPR-25

DOCKET NO. 50-249

Revise the Appendix "A" Technical Specifications by removing Page 133a and replacing it with the attached revised Page 133a.

3.8 LIMITING CONDITION FOR OPERATION

4.8 SURVEILLANCE REQUIREMENT

The Unit 2/3 plant chimney gas sampling system may be out of service for 48 hours for the purpose of installing the high range noble gas monitor as long as the following conditions are satisfied:

- a. Both units are at steady state conditions with the recombiners and charcoal adsorbers in service for the operating unit(s).
- b. The chimney release rate must be shown by calculation to be less than the limits of 3.8.A.2.a. and b., assuming the charcoal adsorbers are bypassed on both units.
- c. Both offgas monitors on Unit 2 and Unit 3 must be operational and the monitor reading correlated to the chimney release rate based on the conservative assumption of both units' charcoal adsorbers being bypassed.
- d. If the provisions of 3.8.A.1.a, b or c cannot be met, an orderly load reduction of the unit(s) shall be initiated immediately.

Due to the existence of Dresden Unit 1 and two Dresden Unit 2/3 stacks in close vicinity, a set of equations are needed to express the airborne effluents limits. The symbols in the equations stand for the following:

Q_1 = release rate from Unit 1 plant chimney

Q_2 = release rate from Units 2 and 3 plant chimney
with only Unit 2 or only Unit 3 operating (not both)

$Q_{2,3}$ = release rate from Units 2 and 3 plant chimney
with both units operating

Q_{RS} = release rate from Units 2 and 3 reactor building
ventilation stack



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 52 TO PROVISIONAL OPERATING LICENSE NO. DPR-19
AND AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. DPR-25
DOCKET NOS. 50-237 AND 50-249

INTRODUCTION

By letter dated December 5, 1980, the Commonwealth Edison Company (CECo) proposed a change to the Technical Specifications for Dresden Station Units No. 2 and 3. The proposed change would permit the plant chimney monitoring system to be taken out of service for up to 48 hours with the Units operating while modifications are being made to the chimney monitoring system to meet NRC requirements.

BACKGROUND

In response to the NRC staff review of the Three Mile Island accident, the staff, by letter dated October 30, 1979, required CECo to install noble gas monitors with an extended range. These monitors shall be designed to function during accident conditions and normal operating conditions.

By letter dated January 1, 1980, CECo committed to install the high range monitors and implemented interim methods of quantifying radioactive effluent releases should the existing instrumentation go off scale.

EVALUATION

The installation of the extended range noble gas monitors requires that the existing noble gas monitors, which sample gas being exhausted through the plant chimney, be removed from service while the new monitors are being installed.

The plant chimney monitors sample the gaseous effluent exhausted from the reactor building. The main source of radioactivity in this exhaust stream is non-condensable gases removed from the main condensers by the steam jet air ejectors. The offgas from the air ejectors is monitored by the offgas monitors and then passed through the augmented offgas system to provide additional holdup time to allow the decay of the shorter lived radioactive halogens and noble gases. The gases are then exhausted through the stack after monitoring by the chimney monitor. Therefore, the main source of gaseous effluent to the plant chimney is monitored by the offgas monitors at the steam jet air ejectors and then by the chimney monitor after passing through the augmented offgas system.

CECo proposes to operate for up to 48 hours with the plant chimney gas sampling system out of service. During the period that the plant chimney monitor is out of service, CECo has proposed to operate with three additional limiting conditions for operation in the Unit 2/3 Technical Specifications. These conditions provide additional assurance that an increase in the release rate of gaseous radioactive effluent during the period that the plant chimney is out of service will be detected. The additional conditions proposed are: 1) The chimney monitor may be removed only if both units are at steady state conditions with their augmented off-gas systems in service; 2) A chimney release rate will be extrapolated from the offgas monitor readings. In extrapolating from the offgas monitor reading to the chimney release rate, no credit will be taken for the charcoal adsorbers in the augmented offgas system. The chimney release rate, as indicated by the offgas monitors, will be maintained below the existing chimney release limit of Specification 3.8.A.2.a; and 3) Both offgas monitors on Units 2 and 3 must be operable.

We have reviewed CECo's proposed operation with the chimney monitor out of service for up to 48 hours. We have determined that the additional technical specifications proposed by CECo during the interim period will provide adequate assurance that radioactive releases during the short period of steady state operation will be promptly detected and adequately monitored. We conclude that operation in the proposed manner is acceptable and provides an equivalent level of protection to the chimney monitors.

ENVIRONMENTAL CONSIDERATIONS

We have determined that these amendments do not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that these amendments involve an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

CONCLUSION

We have concluded: (1) because the amendments do not involve a significant increase in the probability of consequences of accidents previously considered and do not involve a significant decrease in a safety margin, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Date: December 29, 1980

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-237 AND 50-249COMMONWEALTH EDISON COMPANYNOTICE OF ISSUANCE OF AMENDMENTS

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 52 to Provisional Operating License No. DPR-19 and Amendment No. 46 to Facility Operating License No. DPR-25, issued to Commonwealth Edison Company, which revised the Technical Specifications for operation of the Dresden Nuclear Power Station, Unit Nos. 2 and 3, respectively, located in Grundy County, Illinois. The amendments are effective as of their date of issuance.

The amendments authorize a one-time operation for 48 hours with plant chimney monitoring systems out of service to permit the installation of monitoring improvements required by the NRC staff. During the period that the chimney monitors are inoperative, additional measures will be taken to provide an equivalent level of protection against an undetected release of airborne radioactivity.

The application for amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments was not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendments dated December 5, 1980, (2) Amendment No. 52 to Provisional Operating License No. DPR-19 and Amendment No. 46 to Facility Operating License No. DPR-25, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., and at the Morris Public Library, 604 Liberty Street, Morris, Illinois. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 29th day of December, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION


Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

(10-80)

U.S. NUCLEAR REGULATORY COMMISSION

1. FEE FORM TYPE (Check one)

REACTOR FACILITY FEE DETERMINATION

PRELIMINARY

FINAL

AMENDED

INSTRUCTIONS. Fill-in items 1 through 14, as applicable, and send the original copy to the License Fee Management Branch.

2. DOCKET NUMBER(S)

50-237/249

3. ACCESSION NUMBER

4. LICENSEE

Commonwealth Ed

5. PLANT NAME AND UNIT(S)

Dresden 2 and 3

6. DATE OF APPLICATION

12/5/80

7. FEE REMITTED

YES

NO

8. LICENSEE FEE DETERMINATION

CLASS I

CLASS II

CLASS III

CLASS IV

CLASS V

CLASS VI

EXEMPT

NONE

10. TAC NUMBER ASSIGNED (if available)

43267

11. APPROVAL

DATE OF ISSUANCE

LETTER

ORDER

12/29/80

AMENDMENT NUMBER(S)

#52-50-237
#46-50-249

12. NRC FEE DETERMINATION

The above application has been reviewed in accordance with Section 170.22 of Part 170 and is properly categorized.

The above application has been reviewed in accordance with Section 170.22 of Part 170 and is incorrectly classified.

Fee should be class(es):

JUSTIFICATION FOR CLASSIFICATION OR RECLASSIFICATION:

This application is a Class _____ type of action and is exempt from fees because it is:

Filed by a nonprofit educational institution.

Filed by a Government agency and is not for a power reactor.

For a Class I, II, or III amendment which results from an NRC request dated _____ for the application and the amendment is to simplify or clarify License or Technical Specifications; has only minor safety significance; and is being issued for the convenience of NRC (must meet all of the criteria).

Other (State reason therefor)

13. SIGNATURE (Branch Chief)

Paul W. Connor *Dennis H. Cutcliffe*

DATE

1/15/81

14. FINAL CERTIFICATION: The preliminary fee determination has been reassessed and is hereby affirmed.

SIGNATURE (Project Manager or Branch Chief)

DATE

FOR LICENSE FEE MANAGEMENT BRANCH USE ONLY (All others do not write below this line)

The above exemption request has been reviewed and is hereby accepted as being exempt.

SIGNATURE (Chief, LFMB)

DATE

DISTRIBUTION BY LFMB

Records Services Branch

DL Branch Chief

LFMB Exemption File

LFMB Reactor File