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Docket Nos. 50-282  
50-306

Northern States Power Company  
ATTN: Mr. L. O. Mayer, Manager  
Nuclear Support Services  
414 Nicollet Mall - 8th Floor  
Minneapolis, Minnesota 55401

Gentlemen:

In response to your request dated November 6, 1975, the Commission has issued the enclosed Amendment Nos. 12 and 6 to Facility Operating License Nos. DPR-42 and DPR-60 for the Prairie Island Nuclear Generating Plant Units 1 and 2, respectively.

The amendments consist of changes in those portions of the license and Technical Specifications relating to the receipt, possession and use of byproduct source and special nuclear materials to incorporate standard provisions such as those currently included in recently issued licenses.

Copies of the related Safety Evaluation and the Federal Register Notice also are enclosed.

Sincerely,

Original signed by  
Dennis L. Ziemann

Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosures:

1. Amendment No. 12 to License No. DPR-42
2. Amendment No. 6 to License No. DPR-60
3. Safety Evaluation
4. Federal Register Notice

cc w/enclosures:  
See next page

*983*

OFFICE →	OR:ORB #2 <i>RMD</i>	OR:ORB #2 <i>MG</i>	OELD <i>D. Lewis</i>	OR:ORB #2 <i>DLZiemann</i>		
SURNAME →	RMDiggs:ro	MGrotenhuis	<i>D. Lewis</i>	DLZiemann		
DATE →	<i>4/29/76</i>	<i>4/29/76</i>	<i>5/11/76</i>	<i>5/11/76</i>		



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

May 11, 1976

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Copies of the related Safety Evaluation and the Federal Register Notice also are enclosed.

Sincerely,

A handwritten signature in cursive script that reads "Dennis L. Ziemann".

Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosures:

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License No. DPR-42
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cc w/enclosures:  
See next page

Northern States Power Company

- 2 -

May 11, 1976

cc w/enclosures:

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Mr. John E. Davidson, Chairman  
Goodhue County Board of Commissioners  
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cc w/enclosures and cy of NSPCo  
filing dtd. 11/6/75:  
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Public Service Commission of  
Wisconsin  
Hill Farms State Office Building  
Madison, Wisconsin 53702



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20585

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-282

PRAIRIE ISLAND NUCLEAR GENERATING PLANT UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 12  
License No. DPR-42

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by the Northern States Power Company (the licensee) dated November 6, 1975, 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;
  - E. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment; and
  - F. The receipt, possession and use of the byproduct, source and special nuclear material as authorized by this license, as amended, will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70, including Sections 30.33, 40.32, 70.23 and 70.31.
2. Accordingly, Facility Operating License No. DPR-42, as amended, is hereby further amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraphs 2.B(2), (3), (4), (5) and 2.C(2) of the license are hereby replaced in their entirety with the following:

- "2.B.(2) Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended as of May 11, 1976.
- (3) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess, and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument and equipment calibration or associated with radioactive apparatus or components;
- (5) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility."

"2.C.(2) Technical Specifications

The Technical Specifications contained in Appendices A and B as issued on August 9, 1973, and subsequent changes and amendments thereto are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised."

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

FOR THE NUCLEAR REGULATORY COMMISSION

  
Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Attachment:  
Changes to the  
Technical Specifications

Date of Issuance: May 11, 1976



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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-306

PRAIRIE ISLAND NUCLEAR GENERATING PLANT UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 6  
License No. DPR-60

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by the Northern States Power Company (the licensee) dated November 6, 1975, 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;
  - E. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment; and
  - F. The receipt, possession and use of the byproduct, source and special nuclear material as authorized by this license, as amended, will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70, including Sections 30.33, 40.32, 70.23 and 70.31.
2. Accordingly, Facility Operating License No. DPR-60, as amended, is hereby further amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraphs 2.B.(2), (3), (4), (5), (6) and 2.C.(2) of the license are hereby replaced in their entirety with the following:

- "2.B.(2) Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended as of May 11, 1976.
- (3) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument and equipment calibration or associated with radioactive apparatus or components;
- (5) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility."

"2.C.(2) Technical Specifications

The Technical Specifications contained in Appendices A and B as issued with Facility Operating License DPR-42 on August 9, 1973, and subsequent changes and amendments thereto are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised.

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

FOR THE NUCLEAR REGULATORY COMMISSION

*Dennis L. Ziemann*  
Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Attachment:  
Changes to the  
Technical Specifications

Date of Issuance: May 11, 1976

ATTACHMENT TO LICENSE AMENDMENT NOS. 12 AND 6

FACILITY OPERATING LICENSE NOS. DPR-42 AND DPR-60

DOCKET NOS. 50-282 AND 50-306

Replace page 4.11-2 of the Technical Specifications contained in Appendix A of the above-indicated licenses with the attached revised page 4.11-2. The changed areas on the revised page are reflected by a marginal line.

D. Tests resulting in 0.005 microcuries or more of removable contamination on the test sample shall be reported in the annual operating report in accordance with TS 6.7.

E. Plant operating records shall be made as follows:

1. An inventory of licensed radioactive materials in possession shall be maintained current at all times.
2. The following records shall be retained for 2 years:
  - a. Test results in microcuries, for tests performed pursuant to TS 4.11.
  - b. Record of annual physical inventory verifying accountability of sources on record.

#### Bases

Licensee's program, facilities, personnel, and procedures for safe storage, handling, and use of sealed sources containing radioactive materials is described in FSAR Section 11.4. The surveillance program described in this specification is a part of licensee's program to detect and control contamination of areas in the plant by such radioactive materials. Small quantities of byproduct materials are exempt for licensing by 10 CFR 30.18 and therefore are exempt from leakage tests in this specification. Inhalation or ingestion of such small quantities of byproduct materials from a sealed source would result in less than one maximum permissible body burden for total body irradiation. Sources containing less than 0.1 microcurie of plutonium are exempt from leakage tests by 10 CFR 70.39(c) and therefore such quantities of special nuclear materials (including alpha emitters) are exempt from leakage tests in this specification. The acceptance criteria of less than 0.005 microcuries on the test sample is also based on 10 CFR 70.39(c).



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NOS. 12 AND 6 TO LICENSE NOS. DPR-42 AND DPR-60

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT UNITS 1 AND 2

DOCKET NOS. 50-282 AND 50-306

INTRODUCTION

By application dated November 6, 1975, the Northern States Power Company (NSP) requested that Facility License Nos. DPR-42 and DPR-60 for Units 1 and 2 of the Prairie Island Nuclear Generating Plant be amended. The application involves revisions to those parts of the subject licenses which still specify quantity limits in the sections [basically 2.B.(4) and 2.B.(5) of the licenses] which authorize the receipt, possession and use of byproduct, source and special nuclear materials.

DISCUSSION AND EVALUATION

License No. DPR-42 for Unit 1 of the plant limits the quantity of byproduct materials in item 2.B.(4) to 100 millicuries for sample analysis or instrument calibration and the quantity of source and special nuclear materials in item 2.B.(5) to 100 milligrams for sample analysis and instrument calibration. These two paragraphs would be consolidated and the quantity deleted. Through an earlier oversight, the paragraph relating to the possession of the byproduct and special nuclear materials produced as a result of operation of the facility was deleted. This would be reinstated as item 2.B.(5) in the license. License No. DPR-60 for Unit 2 has the same limits as License DPR-42. In addition, item 2.B.(4) includes one curie of sodium 24 in liquid form to be used as a tracer source, as approved by Amendment No. 1 (dated May 29, 1975) to the license. Consequently, in the consolidation of the two items 2.B.(4) and (5), we would include the previously authorized use of the sodium 24 by adding the word "equipment" to the materials used for calibration purposes. Since the use of sodium 24 does not present any different considerations for use at Unit 1 from those evaluated for Unit 2 in the Commission's Safety Evaluation dated May 29, 1975, the NRC staff would add the use of materials for tracer source to the Unit 1 license (DPR-42). We would revise the related

Technical Specifications to make minor changes in errors on the retention and reporting of leak source testing results and references related thereto. Item 2.C of the licenses (which incorporates the Technical Specifications) would be restated to specifically include reference to the Technical Specifications issued with DPR-42 on August 9, 1973. This reference is basically as stated in License DPR-60 when issued on October 29, 1974. The purpose is to make the license state clearly the governing Technical Specifications.

The objective of this action amending the Licenses DPR-42 and DPR-60 is to add more flexibility to the operation of nuclear power plants by establishing a more generalized approach to the licensing of byproduct, source and special nuclear materials. This objective would reduce the number of licensing actions required as a result of changes in possession limits of related materials. To assure that adequate safeguards be maintained within the framework of this more generalized approach, provisions for more stringent control, accountability and leakage testing of byproduct, source and special nuclear materials were included in previous issuance of Amendment No. 6 to DPR-42 on October 25, 1974, and the issuance of License DPR-60 on October 29, 1974. Only minor changes as indicated in the first paragraph on page 1 of this evaluation would be made in the Technical Specifications.

The October 1974 actions referenced above included our review of proposed Technical Specification changes and Sections 11.4 and Table 11.4-1 of the FSAR with particular attention to the Radioactive Materials Safety Program and concluded "that such materials will be safely handled and that the possession and use limits in the Prairie Island licenses are consistent with those for other currently issued licenses."

We conclude that the proposed license amendments and the associated proposed Technical Specification changes are acceptable in that they provide reasonable assurance that byproduct, source and special nuclear material will be stored, used and accounted for in a manner which meets the applicable radiation protection provisions of 10 CFR Parts 20, 30, 40 and 70.

ENVIRONMENTAL CONSIDERATIONS

We have determined that the 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 the 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 statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not involve a significant increase in the probability or 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: May 11, 1976

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS. 50-282 AND 50-306

NORTHERN STATES POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 12 and 6 to Facility Operating License Nos. DPR-42 and DPR-60, issued to the Northern States Power Company (the licensee), which revised the license for operation of Units 1 and 2 of the Prairie Island Nuclear Generating Plant (the facilities) located in Goodhue County, Minnesota. The amendments are effective as of their date of issuance.

The amendments revise those portions of the licenses and the appended Technical Specifications for the facilities to provide standard provisions for the receipt, possession and use of byproduct, source and special nuclear materials for operation of the facilities.

The application for the 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 is 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 §51.5(d)(4) an environmental statement, negative declaration or 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 November 6, 1975, (2) Amendment Nos. 12 and 6 to License Nos. DPR-42 and DPR-60, respectively, and (3) the Commission's concurrently issued 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 Environmental Conservation Library of the Minneapolis Public Library, 300 Nicollet Mall, Minneapolis, Minnesota 55401. 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 Operating Reactors.

Dated at Bethesda, Maryland, this 11th day of May, 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

*Dennis L. Ziemann*  
Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors