

July 25, 1989

Dockets Nos. 50-282 and 50-306

Mr. T. M Parker, Manager
Nuclear Support Services
Northern States Power Company
414 Nicollet Mall
Minneapolis, Minnesota 55401

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Dear Mr. Musolf:

SUBJECT: AMENDMENTS NOS. 88 AND 81 TO FACILITY OPERATING LICENSES NOS.
DPR-42 AND DPR-60: TRANSFER OF BY-PRODUCT MATERIALS (TACS NOS.
71985 AND 71986)

The Commission has issued the enclosed Amendment No. 88 to Facility Operating License No. DPR-42 and Amendment No. 81 to Facility Operating License No. DPR-60 for the Prairie Island Nuclear Generating Plant, Units Nos. 1 and 2. These amendments consist of changes to the license in response to your application dated October 24, 1988.

The amendments change the license by adding the provisions that allow the transfer of by-product materials to the Prairie Island Nuclear Generating Plant from other NSP job sites.

A copy of the Safety Evaluation supporting these amendments is enclosed. Also enclosed is a copy of the Notice of Issuance which has been forwarded to the Office of the Federal Register for publication.

The issuance of these amendments complete our work effort under TACs Nos. 71985 and 71986.

Sincerely,

Dominic C. DiIanni, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 88 to License No. DPR-42
2. Amendment No. 81 to License No. DPR-60
3. Safety Evaluation
4. Notice

cc w/enclosures:
See next page

DFOI
1/1

CR1

~~LA/PD31:DRSP
PShuttleworth
7/1/89~~

DCD
PM/PD31:DRSP
DDianni
7/1/89

(A)D/PD31:DRSP
LYandell
7/24/89

OGC
as marked
7/11/89



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

July 25, 1989

Dockets Nos. 50-282 and 50-306

Mr. D. M. Musolf, Manager
Nuclear Support Services
Northern States Power Company
414 Nicollet Mall
Minneapolis, Minnesota 55401

Dear Mr. Musolf:

SUBJECT: AMENDMENTS NOS. 88 AND 81 TO FACILITY OPERATING LICENSES NOS.
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A copy of the Safety Evaluation supporting these amendments is enclosed. Also enclosed is a copy of the Notice of Issuance which has been forwarded to the Office of the Federal Register for publication.

The issuance of these amendments complete our work effort under TACs Nos. 71985 and 71986.

Sincerely,

A handwritten signature in cursive script that reads "Dominic C. DiIanni".

Dominic C. DiIanni, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 88 to License No. DPR-42
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3. Safety Evaluation
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cc w/enclosures:
See next page

Mr. T. M. Parker
Northern States Power Company

Prairie Island Nuclear Generating
Plant

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Red Wing, Minnesota 55066



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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-282

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT NO. 1

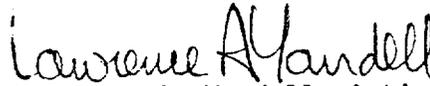
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 88
License No. DPR-42

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Northern States Power Company (the licensee) dated October 24, 1988, 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.
 2. Accordingly, Facility Operating License No. DPR-42 is hereby amended by adding paragraph 2.B(6) to read as follows:*
- "(6) Pursuant to the Act and 10 CFR Parts 30 and 70, to transfer by-product materials from other NSP job sites for the purposes of volume reduction and decontamination."

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

FOR THE NUCLEAR REGULATORY COMMISSION



Lawrence A. Yandell, Acting Director
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Page 3 of license

Date of Issuance: July 25, 1989

*Page 3 is attached, for convenience, for the composite license to reflect this change.



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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-306

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 81
License No. DPR-60

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Northern States Power Company (the licensee) dated October 24, 1988, 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.
2. Accordingly, Facility Operating License No. DPR-42 is hereby amended by adding paragraph 2.B(6) to read as follows:

"(6) Pursuant to the Act and 10 CFR Parts 30 and 70, to transfer by-product materials from other NSP job sites for the purposes of volume reduction and decontamination."

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

FOR THE NUCLEAR REGULATORY COMMISSION



Lawrence A. Yandell, Acting Director
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Page 3 of license

Date of Issuance: July 25, 1989

*Page 3 is attached, for convenience, for the composite license to reflect this change.

ATTACHMENT TO LICENSE AMENDMENT NO. 88

FACILITY OPERATING LICENSE NO. DPR-42

DOCKET NO. 50-282

Revise the License by removing the page identified below and inserting the attached page. The revised page is identified by amendment number and contains marginal lines indicating the area of change.

REMOVE

-3-

INSERT

-3-

- (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;
- (6) Pursuant to the Act and 10 CFR Parts 30 and 70, to transfer byproduct materials from other NSP job sites for the purposes of volume reduction and decontamination.

C. This amended license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 1650 megawatts thermal.

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through amendment No. 87, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.



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

ATTACHMENT TO LICENSE AMENDMENT NO. 81

FACILITY OPERATING LICENSE NO. DPR-60

DOCKET NO. 50-306

Revise the License by removing the page identified below and inserting the attached page. The revised page is identified by amendment number and contains marginal lines indicating the area of change.

REMOVE

-3-

INSERT

-3-

- (4) Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess and use in amounts as required any by-product, 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 by-product and special nuclear materials as may be produced by the operation of the facility;
- (6) Pursuant to the Act and 10 CFR Parts 30 and 70, to transfer byproduct materials from other NSP job sites for the purposes of volume reduction and decontamination.

C. This amended license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 1650 megawatts thermal.

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 80, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

Amendment 80

Amendment 78



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENTS NOS. 88 AND 81 TO

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

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNITS NOS. 1 AND 2

DOCKETS NOS. 50-282 AND 50-306

1.0 INTRODUCTION

By letter dated October 24, 1988, the licensee for Prairie Island, Northern States Power Company (NSP), requested an amendment for Prairie Island's license. This proposed license amendment would allow the Prairie Island Plant to receive materials with low levels of radioactive contamination (drummed Low Specific Activity (LSA) waste and used protective clothing) from other NSP job sites (Monticello and Pathfinder) for the purposes of decontamination and volume reduction. Our review is limited to the evaluation of (1) the increase in occupational exposure to plant personnel from the processing of LSA waste from other NSP facilities at Prairie Island and (2) the environmental effect of shipping this waste to Prairie Island.

2.0 EVALUATION

2.1 Occupational Radiation Exposure to Plant Personnel

The licensee has installed a super-compactor unit at the Prairie Island plant which is capable of yielding significant volume reduction factors for drums containing low level dry radioactive waste (3-4 55-gallon drums compacted to fit in a single 58-gallon container). Because of the difficulty and radiation exposure involved in dismantling this super-compactor for shipment to and use at other NSP facilities, the licensee has requested that drummed low level dry radioactive waste from other NSP facilities be shipped to the Prairie Island plant for volume reduction and subsequent shipment to a disposal site.

The three activities which would result in occupational radiation exposure to personnel during the shipment of this waste to the Prairie Island plant are (1) the packaging and labeling of this waste in drums for shipment to the Prairie Island plant, (2) the transportation of this waste, and (3) the receipt, storage, and compaction of this waste at the Prairie Island plant. The licensee contends that the dose incurred at the other NSP facilities from packaging and labeling of this waste for shipment to the Prairie Island plant would be no greater than the dose incurred if the waste were to be packaged for shipment directly to a disposal site. The annual dose to the driver transporting the waste to the Prairie Island plant would be minimal due to the low dose rates and small number

of waste shipments made (2-3 trips/year x 2 mrem/hr x 3hr/trip). Once the drums arrived at the Prairie Island plant, they would either be compacted immediately or stored in the radwaste building and compacted within a few weeks of receipt. The licensee estimates that the total additional annual dose to plant personnel as a result of shipping wastes from the NSP facilities to the Prairie Island plant for compaction would be less than one person-rem. This additional dose is a small fraction of the annual cumulative dose at the Prairie Island or Monticello plants.

The licensee has also requested that the Prairie Island plant be allowed to provide for the cleaning of protective clothing from other NSP facilities when necessary (during times of high usage or equipment breakdown at the other facilities). Since this would result in very little additional dose to plant personnel due to the low activity of used protective clothing, and since this is a common practice at other facilities, the staff finds this request acceptable.

Because the additional dose associated with this proposed license amendment is so low and because the benefits to be gained from transporting this low activity waste to the Prairie Island plant outweigh the benefits and higher costs associated with transporting the super compactor to the other NSP facilities, the staff finds this amendment acceptable.

The staff has reviewed the environmental effects of this proposed license amendment and finds that the dose to the general public will be much less than the 0.2 man-rem referenced in the Final Environmental Statement (FES) regarding the transportation of solid wastes. Collective doses of this magnitude are very unlikely to have significant impact on the quality of the human environment. The proposed change would not create the possibility of a new, or a different kind of accident than any previously evaluated, nor a significant increase in the probability of an accident previously evaluated, since the proposed change is limited to "By-product Material Transfer" between plants. It would not involve a significant reduction in the margin of safety; it would not change the conclusion in the FES; and is, therefore, acceptable.

On the basis of the above evaluation, the staff concludes that the license amendment change proposed by the licensee is consistent with 10 CFR Part 20, 10 CFR Part 51.31, and Regulatory Guide 8.8 and, therefore, is acceptable. No change in our previous FES input have to be made to accommodate the new amendment. The staff further concludes that there are no significant radiological or non-radiological impacts associated with the proposed action, and that the issuance of the proposed license amendment will have no significant impact on the quality of the human environment.

3.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.32 and 51.35, an environmental assessment and finding of no significant impact was published in the Federal Register on June 29, 1989 (54 FR 27441).

Accordingly, based upon the environmental assessment, the Commission has determined that issuance of this amendment will not have a significant effect on the quality of the human environment.

4.0 CONCLUSION

We have 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 amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: John L. Minns
Charles S. Hinson

Dated: July 25, 1989

UNITED STATES NUCLEAR REGULATORY COMMISSION
NORTHERN STATES POWER COMPANY
DOCKET NOS. 50-282 AND 50-306
NOTICE OF ISSUANCE OF AMENDMENTS TO
FACILITY OPERATING LICENSES

The U.S. Nuclear Regulatory Commission (Commission) has issued Amendment No. 88 to Facility Operating License No. DPR-42 and Amendment No. 81 to Facility Operating License No. DPR-60, issued to Northern States Power Company (the licensee), which revised the License for operation of the Prairie Island Nuclear Generating Plant, Units Nos. 1 and 2, located in Goodhue County, Minnesota.

The amendments are effective as of the date of issuance.

The amendments modified the license to add the provision for transferring by-product materials to the Prairie Island facility from other Northern States Power job sites.

The application for amendments comply 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.

Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on March 7, 1989 (54 FR 9584). No request for a hearing or petition for leave to intervene was filed following this notice.

The Commission has prepared an Environmental Assessment related to the action and has determined not to prepare an environmental impact statement. Based upon the environmental assessment, the Commission has concluded that the issuance of this amendment will not have a significant effect on the quality of the human environment.

For further details with respect to the action see (1) the application for amendments dated October 24, 1988, (2) Amendment No. 88 to License No. DPR-42 and Amendment No. 81 to DPR-60 and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, the Gelman Building, 2120 L Street, N.W. Washington, DC and at the Minneapolis Public Library, Technology and Science Department, 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, DC 20555, Attention: Director, Division of Reactor Project III, IV, V & Special Projects.

Dated at Rockville, Maryland this 25th day of July 1989.

FOR THE NUCLEAR REGULATORY COMMISSION



Dominic C. DiIanni, Project Manager
Project Directorate III-1
Division of Reactor Project - III, IV,
V & Special Projects
Office of Nuclear Reactor Regulation