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RFerguson

Mr. D. M. Musolf DCDilanni

Nuclear Support Services Department Northern States Power Company 414 Nicollet Mall - 8th Floor

RAClark OELD ELJordan JMTaylor

Minneapolis, Minnesota 55401

TBarnhart-8

Dear Mr. Musolf:

SUBJECT: PRAIRIE ISLAND UNIT NOS. 1 AND 2 FIRE PROTECTION - REQUEST

FOR EXEMPTION FROM A REQUIREMENT OF APPENDIX R TO 10 CFR

PART 50, SECTION III.G

By letter dated December 6, 1982, you requested exemption from the requirements of Appendix R to 10 CFR Part 50. This exemption from Section III.G.3.b would remove the requirement to install a fixed fire suppression system in the Prairie Island Nuclear Generating Plant, Unit Nos. 1 and 2 control room. The Commission has granted this request as described in the enclosed Exemption.

A copy of the Exemption is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by Robert A. Clark

Robert A. Clark, Chief Operating Reactors Branch #3

Division of Licensing

Enclosure: Exemption

cc w/enclosure:
See next page

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DC 45/83 per the correction

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OFFICE.

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

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Docket No.

50-282/50-306

Docketing and Service Section Office of the Secretary of the Commission

SUBJECT: MONTHERN STATES POWER COMPANY, Prairie Island Muclear Generating Plant, Unit Nos. 1 and 2

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Other: Exemption: Fire Protection	
	Division of Licensing Office of Nuclear Reactor Regulation
Enclosure: As Stated	
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cc:

Gerald Charnoff, Esquire Shaw, Pittman, Potts and Trowbridge 1800 M Street, N.W. Washington, D. C. 20036

Mr. Louis J. Breimhurst Executive Director Minnesota Pollution Control Agency 1935 W. County Road B2 Roseville, Minnesota 55113

Mr. E. L. Watzl, Plant Manager Prairie Island Nuclear Generating Plant Northern States Power Company Route 2 Welch, Minnesota 55089

Jocelyn F. Olson, Esquire Special Assistant Attorney General Minnesota Pollution Control Agency 1935 W. County Road B2 Roseville, Minneosta 55113

U.S. Nuclear Regulatory Commission Resident Inspectors Office Route #2, Box 500A Welch, Minnesota 55089

Regional Administrator Nuclear Regulatory Commission, Region III Office of Executive Director for Operations 799 Roosevelt Road Glen Ellyn, Illinois 60137

Mr. R. L. Tanner County Auditor Red Wing, Minnesota 55066

U. S. Environmental Protection Agency Federal Activities Branch Region V Office ATTN: Regional Radiation Representative 230 South Dearborn Street Chicago, Illinois 60604

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

In the Matter of

NORTHERN STATES POWER.

COMPANY
(Prairie Island Nuclear Generating Plant Unit Nos. 1 and 2)

Docket Nos. 50-282 and 50-306

EXEMPTION

I.

The Northern States Power Company (the licensee) is the holder of Facility Operating License Nos. DPR-42 and DPR-60 which authorize operation of the Prairie Island Nuclear Generating Plant, Unit Nos. 1 and 2. These licenses provide, among other things, that they are subject to all rules, regulations and Orders of the Commission now or hereafter in effect.

The facility comprises two pressurized water reactors at the licensee's site located in Goodhue, Minnesota.

II.

On November 19, 1980, the Commission published a revised Section

10 CFR 50.48 and a new Appendix R to 10 CFR 50 regarding fire protection
features of nuclear power plants (45 FR 76602). The revised Section

50.48 and Appendix R became effective on February 17, 1981. Section III.G.,
of Appendix R contains fifteen subsections, lettered A through O, each
of which specifies requirements for a particular aspect of the fire protection features at a nuclear power plant. One of these fifteen subsections,
III.G., is the subject of this exemption request. III.G. specifies detailed
requirements for fire protection of the equipment used for safe shutdown by
means of separation and barriers (III.G.2). If the requirements for separation

and barriers could not be met in an area, alternative safe shutdown capability, independent of that area and equipment in that area, was required (III.G.3).

By letter dated December 6, 1982 the licensee requested an exemption from the requirements of Section III.G.3b to the extent that it requires the installation of a fixed fire suppression system in the control room. In support of this request the licensee notes the existing fire protection features, the fact that the control room is continuously manned and the potentially adverse impact on equipment and personnel occupancy of an inadvertent initiation of a fixed suppression system.

III.

We have reviewed the licensee's exemption request. The control room is located at the 735' elevation bounded by 3-hour rated fire barriers. Safe shutdown equipment in the room consists of the main control consoles and cabinets, including redundant control cables, indicating instruments and relays.

Existing fire protection consists of an ionization-type smoke detection system located thoughout the room, and a manual suppression system within and just outside the control room. The room is continuously manned and access to it is controlled. In the event the control room becomes uninhabitable due to smoke or heat, an alternate system located outside the control room can be used to achieve safe shutdown. In addition, the control room has a 4,000 cfm of ventilation system with 10,000 cfm recirculation capability that is capable of rapidly

removing smoke and byproducts. We have judged that the control room area is uncongested, access for manual suppression is considered excellent and the fire loading is light.

The intent of Section III.G is to require an acceptable level of fire safety to assure the maintenance of safe shutdown capability. Because the control room is continuously manned and has other fire protection features described above, there is reasonable assurance that a fire would be promptly extinguished. Therefore, the installation of a fixed fire suppression system will not significantly increase the level of fire protection in the control room and the exemption requested by the licensee should be granted.

IV.

Accordingly, the Commission has determined that, pursuant to 10 CFR 50.12, an exemption is authorized by law and will not endanger life or property or common defense and security and is otherwise in the public interest and hereby grants an exemption from the requirements of Section III.G.3b of Appendix R to 10 CFR 50 to the extent that it requires the installation of a fixed fire suppression system in the control room at Prairie Island.

The NRC staff has determined that the granting of this Exemption will not result in any significant environmental impact and that pursuant to

10 CFR 51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with this action.

FOR THE NUCLEAR REGULATORY COMMISSION

Darrell G. Elisenhut, i Division of Licensing

Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland this 2nd day of February, 1983.