December 3, 1986

Docket No. 50-298

Mr. J. M. Pilant, Technical
Staff Manager
Nuclear Power Group
Nebraska Public Power District
Post Office Box 499
Columbus, Nebraska 68601

Dear Mr. Pilant:

The Commission has issued the enclosed Amendment No. 105 to Facility Operating License No. DPR-46 for the Cooper Nuclear Station. This amendment consists of changes to the Technical Specifications in response to your application dated February 10, 1986 as modified by letter dated September 9, 1986.

The amendment changes the Technical Specifications applicable to personnel access control for high radiation areas. The amendment also deletes Technical Specification 6.3.7.C.A "Environmental Qualification Program." Deletion of 6.3.7.C was approved in Amendment No. 102, however, paragraph 6.3.7.C.A was inadvertently retained.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

Original signed by

William O. Long, Project Manager
BWR Project Directorate #2
Division of BWR Licensing

Enclosures:
1. Amendment No. 105 to License No. DPR-46
2. Safety Evaluation

cc w/enclosures:
See next page

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*PREVIOUSLY CONCURRED

DBL:PD#2	DBL:PD#2	OGC - Bethesda	DBL:PD#2
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12/2/86	11/24/86	11/25/86	12/3/86

OFFICIAL RECORD COPY

Mr. J. M. Pilant
Nebraska Public Power District

Cooper Nuclear Station

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

NEBRASKA PUBLIC POWER DISTRICT

DOCKET NO. 50-298

COOPER NUCLEAR STATION

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 105
License No. DPR-46

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for amendment by Nebraska Public Power District (the licensee) dated February 10, 1986 as modified by letter dated September 9, 1986, 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, 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 Facility Operating License No. DPR-46 is hereby amended to read as follows:

(2) Technical Specification

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 105 , 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Daniel R Muller

Daniel R. Muller, Director
BWR Project Directorate #2
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 3, 1986

ATTACHMENT TO LICENSE AMENDMENT NO. 105

FACILITY OPERATING LICENSE NO. DPR-46

DOCKET NO. 50-298

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised areas are indiciated by marginal lines.

Pages

iv

226a

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TABLE OF CONTENTS (Cont'd.)

6.3 (Cont'd)

A. High Radiation Area

In lieu of the "control device" or "alarm signal" required by paragraph 20.203(c)(2) of 10 CFR Part 20, each high radiation area in which the dose rate is greater than 100 mrem/hr but less than 1000 mrem/hr* shall be barricaded (barricade will impede physical movement across the entrance or access to the high radiation area; i.e., doors, yellow and magenta rope, turnstile) and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Special Work Permit (SWP)**. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:

1. A monitoring device which continuously indicates the radiation dose rate in the area.

2. A monitoring device which continuously integrates the radiation dose in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rates in the area have been established and personnel have been made knowledgeable of them.

3. A radiation protection qualified individual (i.e., qualified in radiation protection procedures), with a dose rate monitoring device, who is responsible for providing positive control over the activities within the area and shall perform periodic dose rate monitoring at the frequency specified by Health Physics supervision.

In addition to the requirements of the above specification, areas accessible to personnel with dose rates such that a major portion of the body could receive in 1 hour a dose greater than 1000 mrem* shall be provided with locked doors to prevent unauthorized entry. Doors shall remain locked except during periods of access by personnel under an approved SWP which shall specify the dose rates in the immediate work area. For individual high radiation areas accessible to personnel that are located within large areas, such as the containment, or areas where no enclosure exists for purposes of locking and no enclosure can be reasonably constructed around the individual areas, then that area shall be barricaded and conspicuously posted. Area radiation monitors that have been set to alarm if radiation levels increase, provide both a visual and an audible signal to alert personnel in the area of the increase. These monitors may be used to meet specification 6.3.A.1 provided that the dose rates and alarms have been established by radiation protection personnel. Stay times or continuous surveillance, direct or remote (such as use of closed circuit TV cameras), may be made by personnel qualified in radiation protection procedures to provide additional positive exposure control over the activities within the area.

*Measurement made at 18 inches from source of radiation.

**Radiation protection personnel or personnel escorted by radiation protection personnel shall be exempt from the SWP issuance requirement during the performance of their assigned duties, provided they are otherwise following plant radiation protection procedures for entry into high radiation areas.

6.3 (cont'd)

6.3.5 Temporary Changes

Temporary changes to procedures which do not change the intent of the original procedure may be made, provided such changes are approved by two members of the operating staff holding SRO licenses. Such changes shall be documented and subsequently reviewed by the Division Manager of Nuclear Operations within one month.

6.3.6 Exercise of Procedures

Drills of the Emergency Plan procedures shall be conducted annually, including a check of communications with offsite support groups. Drills on the procedures specified in 6.3.2.A, B, and C above shall be conducted as part of the retraining program.

6.3.7 Programs

The following programs shall be established:

A. Systems Integrity Monitoring Program

A program shall be established to reduce leakage to as low as practical levels from systems outside the primary containment during a serious accident that would or could contain highly radioactive fluids. This program shall include provisions establishing preventive maintenance and periodic visual inspection requirements, and leak testing requirements for each system at a frequency not to exceed refueling cycle intervals.

B. Iodine Monitoring Program

A program shall be established to ensure the capability to accurately determine the airborne iodine concentration in vital areas under accident conditions. This program shall include training of personnel, procedures for monitoring and provisions for maintenance of sampling and analysis equipment.

C. Post-Accident Sampling System (PASS)

A program shall be established to ensure the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples under accident conditions. This program shall include training of personnel, procedures for sampling and analysis and provisions for operability of sampling and analysis equipment.

Amendment No. ~~82~~, ~~90~~, ~~101~~, ~~102~~, 105

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 105 TO FACILITY OPERATING LICENSE NO. DPR-46

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

DOCKET NO. 50-298

1.0 INTRODUCTION

By letter dated February 10, 1986 the Nebraska Poblic Power District (NPPD or the licensee) requested an amendment to Facility Operating License No. DPR-46. The proposed amendment would modify the Appendix A Technical Specifications relating to personnel access to high radiation areas. In a letter dated September 9, 1986 the licensee modified its amendment request in response to staff comments.

2.0 EVALUATION

The amendment would modify the Technical Specifications (TS) applicable to high radiation areas: (1) It would be specified that measurements for the determination of high radiation areas are to be made at a distance of 18 inches from the source of radiation; (2) "Barricade" would be clarified as including "doors, yellow and magenta rope, turnstile" or other device to impede physical movement across the entrance or access to the radiation area; (3) The requirement that entrance to high radiation areas be controlled by the shift supervisor would be replaced by a requirement that it be controlled by a Special Work Permit. Radiation protection personnel and those they are escorting would be exempt from the requirement for a Special Work Permit during the performance of their assigned duties while following plant radiation protection procedures for entry into high radiation areas, (4) A requirement would be added that personnel entering high radiation areas, unless provided with a monitoring device which continuously indicates the dose rate, be provided with a monitoring device which continuously integrates the dose rate and alarms at a preset integrated dose, or with a qualified escort with a dose rate monitoring device who is responsible for providing positive control over the activities in the area and shall perform periodic dose rate monitoring at a specified frequency; and (5) additional requirements would be added applicable for high radiation areas accessible to personnel in which a major portion of the body could receive in one hour a dose greater than 1000 mrem. These additional requirements would require that:

> ...areas accessible to personnel with dose rates such that a major portion of the body could receive in one hour a dose greater than 1000 mrem shall be provided with locked doors to prevent unauthorized entry. Doors shall remain locked except during

periods of access by personnel under an approved SWP which shall specify the dose rates in the immediate work area. For individual high radiation areas accessible to personnel that are located within large areas, such as the containment, or areas where no enclosure exists for purposes of locking and no enclosure can be reasonably constructed around the individual areas, then that area shall be barricaded and conspicuously posted. Area radiation monitors that have been set to alarm if radiation levels increase, provide both a visual and an audible signal to alert personnel in the area of the increase. Stay times or continuous surveillance by radiation protection personnel qualified in radiation protection procedures may be used to provide additional positive exposure control over the activities within the area.

The staff has evaluated the proposed amendment for conformance to the Standard Review Plan (Section 12.1) and applicable regulatory guidance. The proposed amendment conforms to the Standard Technical Specifications for Boiling Water Reactors (NUREG-0123) and Regulatory Guide 8.8 "Information Relevant to Ensuring That Occupational Radiation Exposure at Nuclear Power Stations Will Be As Low As is Reasonably Achievable." The staff, therefore, concludes that the proposed amendment is acceptable.

3.0 ENVIRONMENTAL CONSIDERATIONS

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

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, and (2) such activities will be conducted in compliance with he Commission's regulations and the issuance of the amendment ill not be inimical to the common defense and security or to the ealth and safety of the public.

Principal Contributor: B. Murray, W. Long

Dated: December 3, 1986