



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. 81
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 May 25, 1979, 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:

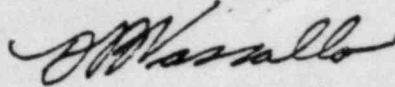
(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 81, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

8303250116 830311
PDR ADOCK 05000298
P
PDR

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

FOR THE NUCLEAR REGULATORY COMMISSION



Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the
Technical Specifications

Date of Issuance: March 11, 1983

ATTACHMENT TO LICENSE AMENDMENT NO. 81

FACILITY OPERATING LICENSE NO. DPR-46

DOCKET NO. 50-298

Replace the following pages of the Appendix B Technical Specifications with the enclosed pages as indicated. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Remove

i
ii
iv
v
1 through 18
30 through 46
47
79
83

Insert

i
ii
-
-
1 through 18
30 through 46
47
79
83

Effective January 19, 1975, activities under the U.S. Atomic Energy Commission regulatory program were assumed by the U.S. Nuclear Regulatory Commission in accordance with the Energy Reorganization Act of 1974. Any references to the Atomic Energy Commission (AEC) contained herein should be interpreted as Nuclear Regulatory Commission (NRC)

ENVIRONMENTAL TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

	<u>Page</u>
List of Tables	Deleted
List of Figures	Deleted
<u>1.0 Definitions</u>	Deleted
<u>2.0 Environmental Protection Conditions and 3.0 Monitoring Requirements</u>	19
2.1 Thermal	Deleted
2.1.1 Maximum ΔT Across Condenser	Deleted
2.1.2 Maximum Discharge Temperature	Deleted
2.1.3 Specified Mixing Zone	Deleted
2.1.4 Maximum BTU/hr	Deleted
2.1.5 Rate of Temperature Change	Deleted
2.1.6 Heat Treatment of Circulating Water System	Deleted
2.1.7 Deicing Operations	Deleted
2.2 Hydraulic	Deleted
2.2.1 Intake Velocity	Deleted
2.2.2 Discharge Velocity	Deleted
2.2.3 Size of Mixing Zone	Deleted
2.2.4 Maximum and Minimum Flow Restrictions	Deleted
2.2.5 Reservoir Drawdown	Deleted
2.2.6 Erosion	Deleted
2.3 Chemical	Deleted
2.3.1 Biocides	Deleted
a. Chlorine	Deleted
b. Phenolic Amines	Deleted
2.3.2 Corrosion Inhibitors	Deleted
2.3.3 Heavy Metals	Deleted
2.3.4 Solids	Deleted
a. Suspended Colloidal or Settable Solids	Deleted
b. Dissolved Solids	Deleted
2.3.5 Hydrogen Ion	Deleted
2.3.6 Other Chemicals	Deleted

TABLE OF CONTENTS (cont'd)

	<u>Page</u>
2.4 Radiological	19
2.4.1 Aquatic	19
a. Biota	19
b. Liquid Effluents	19
c. Sediment	23
2.4.2 Terrestrial	23
a. Fauna	23
b. Flora	23
c. Soil	23
d. Well Water	24
2.4.3 Atmospheric	24
a. Airborne Effluents	24
2.5 Other Parameters	29
4.0 <u>Environmental Surveillance and Special Studies</u>	47
4.1 Biological	Deleted
4.1.1 Aquatic	Deleted
4.1.1.1 Surveillance, Study, and Evaluation Programs	Deleted
4.1.1.2 Plant Cooling Water Systems Fish Entrapment Limits	Deleted
4.1.1.3 Monitoring of the Effects of the Condenser Cooling Water System on Plankton Organisms	Deleted
4.1.1.4 11-Agency Study	Deleted
4.1.2 Terrestrial	Not Applicable
4.2 Chemical	Deleted
4.3 Physical	Deleted
4.3.1 Aquatic-Thermal Plume Mapping	Deleted
4.3.2 Terrestrial	Not Applicable
4.3.3 Aerial	Not Applicable
4.4 Radiological	47
4.4.1 Initial External Radiation Background Measurements	47
4.4.2 Background Radiation	47
4.4.3 Reference Soil	47
4.4.4 Soil	47

- 1 Through 18 -

"LEFT BLANK INTENTIONALLY"

- 30 Through 46 -

LEFT BLANK INTENTIONALLY"

4.0 Environmental Surveillance and Special Studies

4.4 RADIOLOGICAL

Objective

To provide the necessary information for evaluation of radiological effects on the environment.

Specification

An environmental radiological monitoring program will be carried out as defined in Tables 7, 8, and 9.

4.4.1 Background Radiation (Sample Type No. 2)

Ambient levels of external radiation are measured at selected locations within an approximate 10-mile radius of the plant by exposing thermoluminescent dosimeters (TLD) for quarterly time periods. Selection of locations and periods of exposure are based on prevailing winds and anticipated radiation levels to provide suitable measurements for evaluation of probable radiation doses to the environs surrounding the plant location.

4.4.2 Soil (Sample Type No. 5)

Soil samples consist of approximately 2 kg. of soil obtained by inserting a tubular sample template into the earth to a depth of approximately 6 inches and removing the enclosed soil to a suitable container.

4.4.3 Vegetation - Food and Feed Crops (Sample Type No. 7)

Food and feed crop samples consist of approximately 2 kg. of the consumable portions of the food or feed crop being grown at the designated sample location.

4.4.4 Vegetation-Garden Crops (Sample Type No. 8)

Garden crop samples consist of approximately 2 kg. of the edible portions of garden vegetables (usually tomatoes, sweet corn, and cabbage, when available) taken from family gardens at the designated sample stations within a 5 mile radius of the plant.

4.4.5 Vegetation - Feed and Forage - Beef Producers and Nearest Milk Producers (Sample Type No. 9 and 10)

Approximately 2 kg. of forage will be sampled during the pasture season where milk and/or beef cattle are raised at the designated sample stations within an approximate 5-mile radius of the plant. These forage samples will be taken at the accelerated frequency rate as shown in Table 7. When the beef and milk cattle are not on pasture, sampling will consist of approximately 2 kg. of feed, sampled at the less frequent sampling frequency as shown in Table 7.

When coupled with the use of transfer coefficients and intake figures, a reliable monitoring program for Cs-137 uptake in beef cattle is obtained.

The average daily cattle intake of Cs-137 will be estimated from the forage sampling data as follows:

5.3.2 All procedures described in 5.3.1 above, and changes thereto, shall be reviewed as specified in Section 5.1 and approved by the Plant Superintendent prior to implementation. 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 plant management staff. Such changes shall be documented, subsequently reviewed and approved on a timely basis.

5.4 Plant Reporting Requirements

5.4.1 Routine Reports

a. Annual Environmental Operating Report

(2) Radiological Volume

A report on the radiological environmental surveillance programs for the previous 12 months of operation shall be submitted to the Director of the Regional Regulatory Operations Office (with copy to Director of Licensing) as a separate volume (#2) of the Annual Environmental Operating Report within 90 days after January 1 of each year. The period of the first report shall begin with the date of initial criticality. The report shall include summaries, interpretations, and statistical evaluation of the results of the radiological environmental surveillance activities for the report period,

- (1) The occurrence of any condition in violation of an environmental technical specification.
- (2) Failure to take appropriate action when a specified report level is reached.
- (3) Failure to report in a timely manner, other conditions that indicate a significant environmental impact.

c. Changes

- (1) When a change to the plant (that affects the environmental impact evaluation contained in the Environmental Report and the Environmental Statement) or to the environmental monitoring procedures or equipment is planned, a report of the change shall be submitted to the NRC for information prior to implementation of the change. This is not intended to preclude making changes on short notice that are significant in terms of decreasing adverse environmental impact, etc. However, these changes shall be promptly reported.

(2)

- (3) Request for changes in environmental technical specifications shall be submitted to the Director, Division of Reactor Licensing, USNRC for prior review and authorization. The request shall include an evaluation of the impact of the change.

5.5 Records Retention

- 5.5.1 Records and logs relative to the following areas will be retained for the life of the plant: