

MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947) AECM		See me about this.	For concurrence	For action.	
		Note and return.	For signature.	For information.	
TO (Name and unit) Pat Sullivan, Docket Files cc: F. Davis, OGC		INITIALS	REMARKS Attached is a Proposed Facility Operating License for the Cooper Nuclear Station (Docket No. 50-298) for your transmittal to the AEC and Local Public Document Rooms.		
		DATE			
TO (Name and unit)		INITIALS	REMARKS		
		DATE			
TO (Name and unit)		INITIALS	REMARKS		
		DATE			
FROM (Name and unit) <i>H. Smith</i> Hazel Smith Directorate of Licensing		REMARKS			
PHONE NO.	DATE				
	1-3-74				

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO : 1971 O - 445-469

NEBRASKA PUBLIC POWER DISTRICT

DOCKET NO. 50-298

(COOPER NUCLEAR STATION)

FACILITY OPERATING LICENSE

PROPOSED

License No. DPR-46

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for license filed by the Nebraska Public Power District (the licensee) 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 and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Cooper Nuclear Station (facility) has been substantially completed in conformity with Construction Permit No. CPPR-42 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance: (i) that the activities authorized by this operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
 - E. The licensee is technically and financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
 - F. The licensee has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
 - G. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering

available alternatives, the issuance of Facility Operating License No. DPR-46 (subject to the conditions for protection of the environment set forth herein) is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied; and

- I. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by the license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23, and 70.31.
2. Facility Operating License No. DPR-46 is hereby issued to the Nebraska Public Power District to read as follows:
 - A. This license applies to the Cooper Nuclear Station, a boiling water nuclear reactor and associated equipment (the facility), owned by the Nebraska Public Power District. The facility is located near Brownville in Nemaha County, Nebraska, and is described in the "Final Safety Analysis Report" (Amendment 7) as supplemented and amended (Amendments 8 through 28), and the Environmental Report as supplemented and amended (Supplements 1 through 6).
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Nebraska Public Power District:
 - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location near Brownville in Nemaha County, Nebraska, in accordance with the procedures and limitations set forth in this license;
 - (2) Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess, and use at any time up to 3800 kilograms of contained Uranium 235 in connection with operation of the facility;
 - (3) Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material," to receive, possess, and use in connection with operation of the facility:
 - a. Byproduct Material with Atomic Numbers 3 through 83 without restriction as to the chemical or physical form, no isotope to exceed 10 millicuries except as sealed sources, which may contain up to 500 millicuries, except as noted below;
 - b. Americium-241, two sealed neutron sources not to exceed 5.1 and 7 curies, respectively, two sealed sources of 10 microcuries each, and two plated sources not to exceed 1 millicurie each;
 - c. Antimony-124, ten sealed sources, 1400 curies each;

- d. Cobalt-60, five sealed sources not to exceed 1 curie, 20 curies, 500 millicuries, 700 millicuries, and 3.5 curies, respectively.
 - e. Cesium-137, sealed sources not in excess of 245 curies, and one sealed source of 100 curies;
 - f. Hydrogen-3, 50 millicuries in any chemical or physical form;
- (4) Pursuant to the Act and 10 CFR Part 40, "Licensing of Source Material," to receive, possess, and use in connection with operation of the facility 1 gram of U-238; and
 - (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.
- C. This 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, Section 40.41 of Part 40, 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 2381 megawatts (thermal).
 - (2) Technical Specifications

The Technical Specifications contained in Appendices A & B attached hereto are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications.
- D. This license is subject to the additional following conditions for the protection of the environment:
- (1) The licensee shall, for operation not later than April 30, 1975, modify the liquid and gaseous radiological effluent handling systems in accordance with the systems described in Amendment 18 to the Final Safety Analysis Report. If such system is not installed by such date, the licensee shall, nonetheless, observe the gaseous activity release limits set forth in Section 2.4.3 of Appendix B and facility operation shall be restricted accordingly, if necessary.

(2) The licensee shall comply with applicable effluent limitations and other limitations and monitoring requirements, if any, specified pursuant to Section 401(d) of the Federal Water Pollution Control Act Amendments of 1972.

E. This license is effective as of the date of issuance and shall expire at midnight, June 4, 2008.

FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachments:
Appendices A & B -
Technical Specifications

Date of Issuance: