

- (2) Pursuant to the Act, 10 CFR Part 70, "Special Nuclear Material," and 10 CFR Part 73, "Physical Protection of Special Nuclear Material," to receive, possess, and use at any one time in connection with operation of the facility:
 - a. Up to 1700 kilograms of contained uranium 235,
 - b. Up to 3 curies of plutonium contained in encapsulated plutonium-beryllium neutron sources,
 - c. Alpha calibration sources of plutonium and uranium, not to exceed 10 microcuries total per element;
- (3) Pursuant to the Act and 10 CFR Part 40, "Licensing of Source Material," to receive, possess, and use at any one time up to 25,000 kilograms of natural thorium in connection with operation of the facility;
- (4) Pursuant to the Act and to 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. The following without restriction as to chemical and/or physical form:
 1. Any byproduct material with Atomic Numbers 1 through 83, inclusive, not to exceed 5 millicuries per radionuclide;
 2. Americium 241, not to exceed 2.01 curies;
 3. Americium 243, not to exceed 5 millicuries;
 4. Cesium 137, not to exceed 11 curies;
 5. Hydrogen 3, not to exceed 15 curies;
 6. Krypton 85, not to exceed 110 millicuries;
 7. Neptunium 237, not to exceed 5 millicuries;
 8. Polonium 210, not to exceed 10 microcuries;

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9. Thorium 228, 230, 232, not to exceed 1 millicurie per nuclide;
 10. Radium 228, 226, not to exceed 5 millicuries per nuclide;
 - b. Californium 252, 3 milligrams as sealed sources, not to exceed 0.5 curie per source;
 - c. 100 millicuries of byproduct material as contaminated test apparatus.
- (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.
- D. 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 the appropriate sections of Parts 70 and 73; 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 842 megawatts thermal.
 - (2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 31, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.
 - (3) Physical Protection

The licensee shall fully implement and maintain in effect all provisions of the following Commission-approved documents, including amendments and changes made pursuant to the authority of 10 CFR 50.54(p):

 - a. "Fort St. Vrain Unit No. 1 Security Plan"
New consolidated issue dated September 13, 1979, as revised through Revision 10, dated May 26, 1982 (submitted June 2, 1982). (This document is withheld from public disclosure pursuant to 10 CFR 73.21.)

- b. Fort St. Vrain Guard Training and Qualification Plan (Appendix B to the Security Plan) dated February 1982 as revised April 6, 1982. This Plan shall be followed in accordance with 10 CFR 73.55(b)(4) 60 days after approval by the Commission. All security personnel, as required in the above plans, shall be qualified within two years of this approval. The licensee may make changes to this plan without prior Commission approval if the changes do not decrease the safeguards effectiveness of the plan. The licensee shall maintain records of and submit reports concerning such changes in the same manner as required for changes made to the Safeguards Contingency Plan pursuant to 10 CFR 50.54(p). (This document is withheld from public disclosure pursuant to 10 CFR 73.21.)
 - c. Fort St. Vrain Safeguards Contingency Plan (Appendix C to the Security Plan) dated April 6, 1982, submitted pursuant to 10 CFR 73.40. The Contingency Plan shall be fully implemented, in accordance with 10 CFR 73.40(b). (This document is withheld from public disclosure pursuant to 10 CFR 73.21.)
 - d. Chapter 9, Fort St. Vrain Unit 1 Security Plan dated June 10, 1982 (submitted June 11, 1982 revised to ensure compliance with 10 CFR 73.45). (This chapter is classified CONFIDENTIAL, National Security Information.)
 - E. This license is subject to all Federal, State, and local standards imposed pursuant to the requirements of the Federal Water Pollution Control Act of 1972.
3. This license is effective as of the date of issuance and shall expire at midnight, September 17, 2008.

FOR THE ATOMIC ENERGY COMMISSION

"Original Signed By"

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

Attachments:

Appendices A and B - Technical Specifications

Date of Issuance: December 21, 1973

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