



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

RHODE ISLAND AND PROVIDENCE PLANTATIONS

ATOMIC ENERGY COMMISSION

DOCKET NO. 50-193

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 11
License No. R-95

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the Rhode Island and Providence Plantations Atomic Energy Commission (the licensee), dated September 15, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as 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;
 - 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; and
 - F. Publication of notice of this amendment is not required since it does not involve a significant hazards consideration nor amendment of a license of the type described in 10 CFR Section 2.106(a)(2).

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.b of Facility License No. R-95 is hereby amended to read as follows:

- b. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 11 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 the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Cecil O. Thomas

Cecil O. Thomas, Acting Chief
Standardization & Special
Projects Branch
Division of Licensing

Attachment:
Changes to the
Technical Specifications

Date of Issuance: OCT 18 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 11

FACILITY LICENSE R-95

COCKET NO. 50-193

Revise Appendix A as follows:

Remove Pages

7

8

Add Pages

7

8

Changes on the revised pages are identified by marginal lines.

E. REACTOR CORE AND CONTROL ELEMENTS:

The reactor core and control elements shall have the following characteristics and nominal dimensions:

Principal Core Materials

Fuel matrix	Alloy, UAl_x , U_3O_8
U-235 enrichment	Approximately 93%
Fuel clad	1100 and/or 6061 aluminum
Fuel element side plates	6061 aluminum
End fittings	356-T6 or 6061 aluminum
Moderator	Water
Reflector	AGOT grade (or equivalent) graphite and/or water.
Control elements	Mixture of B_4C and aluminum, clad with aluminum
Servo Element	Mixture of B_4C and aluminum, clad with aluminum.

2. Fuel elements

Plate width overall	2.8 in.
Active plate width	2.2 in.
Plate length overall	25 in.
Active plate length	24 in.
Plate thickness	0.06 in.
Clad thickness	0.024 in.
Fuel matrix thickness	0.012 in.
Water gap between plates	0.1 in.

Number of plates per fuel element	18
U-235 per fuel element	124 grams, nominal
Overall fuel element dimensions	3 in. x 3 in. x 40 in.

3. Reflector Elements

Overall reflector element dimensions, nominal	3 in. x 3 in. x 40 in.
Nominal clad thickness	.1 in.
Nominal graphite dimensions	2.8 in. x 2.8 in. x 28.7 in.

4. Control Elements

Width	10.6 in.
Thickness	0.38 in.
Overall length	54.1 in.
Active length	52.1 in.

5. Servo Regulating Element

Shape	Square boron tube
Width	2.1 in.
Overall length	28.8 in.
Active	24.9 in.

6. Control Element Drive

Type	Electromechanical screw
Drive to safety element connection	Electromagnet
Stroke	32 in. maximum
Position indication accuracy	± 0.02 in.