



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

MAINE YANKEE ATOMIC POWER COMPANY  
DOCKET NO. 50-309  
MAINE YANKEE ATOMIC POWER STATION  
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 66  
License No. DPR-36

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Maine Yankee Atomic Power Company, (the licensee) dated September 29, 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 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.

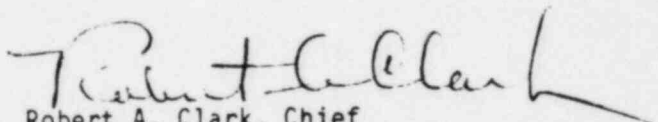
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.B(6)(b) of Facility Operating License No. DPR-36 is hereby amended to read as follows:

(b) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 66, 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



Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 29, 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 66  
TO FACILITY OPERATING LICENSE NO. DPR-36  
DOCKET NO. 50-309

Revise Appendix A as follows:

Remove Page

1.3-1

Insert Page

1.3-1

### 1.3 REACTOR

#### Applicability:

Applies to the reactor vessel, vessel core and internals, as well as the reactor coolant system and components, including associated emergency core cooling systems.

#### Objective:

To define those design criteria essential in providing for safe system operation which are not covered in Sections 2 and 3.

#### Specification:

##### A. Reactor Core

1. The reactor core shall contain 217 fuel assemblies with each assembly containing 176 rods clad with Zircaloy-4. Each fuel rod shall have a nominal active fuel length of 136.7 inches. The fuel shall have a maximum enrichment of 3.30 weigh. percent U-235.

The core excess reactivity shall be controlled by a combination of boric acid chemical shim, control element assemblies (CEAs) and mechanically fixed alumina-boron carbide rods when required. There are seventy-seven CEAs provided. Forty of these are paired to form twenty dual CEAs. The remainder consists of 37 full length CEAs.

There are three types of full length CEAs. Sixty-nine of the full length CEAs contain  $B_4C$  pellets over 124 inches of their length and silver-indium-cadmium in their lowest eight inches. Four full length CEAs have 3 CEA fingers that contain stainless steel as the absorber material and 2 fingers with  $B_4C$  pellets. The remaining four full length CEAs have 4 CEA fingers with stainless steel and 1 finger with  $B_4C$  pellets.