



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

DUKE ENERGY FLORIDA, LLC

SEMINOLE ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-302

CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 250  
License No. DPR-72

1. The Nuclear Regulatory Commission (the Commission) having found that:
  - A. The application filed by Florida Power Corporation\*\*\* and Seminole Electric Cooperative, Inc. (the licensees), as supplemented by letter dated December 9, 1976, 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 1;
  - B. Construction of the Crystal River Unit 3 Nuclear Generating Plant (facility) has been substantially completed in conformity with Provisional Construction Permit No. CPPR-51 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 licensees are financially qualified and Duke Energy Florida, LLC is technically qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
  - F. The licensees have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;

\*\*\*On April 29, 2013, the name "Florida Power Corporation" was changed to "Duke Energy Florida, Inc." On August 1, 2015, Duke Energy Florida, Inc. converted to a limited liability company and the name was changed to "Duke Energy Florida, LLC."

- 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 and other costs and considering available alternatives, the issuance of Facility Operating License No. DPR-72 subject to the conditions for protection of the environment set forth herein is in accordance with 10 CFR Part 51, (formerly Appendix D to 10 CFR Part 50), of the Commission's regulations and all applicable requirements have been satisfied;
  - I. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Part 30, 40 and 70, including 10 CFR Sections 30.33, 40.32, 70.23 and 70.31.
2. Facility Operating License No. DPR-72, issued to the licensees, is hereby amended in its entirety to read as follows:
- A. This amended license applies to the Crystal River Unit 3 Nuclear Generating Plant, a pressurized water nuclear reactor and associated equipment (the facility), owned by the licensees and operated by Duke Energy Florida, LLC. The facility is located on the Gulf of Mexico, about seven and one-half miles northwest of the town of Crystal River, Citrus County, Florida, and is described in the "Final Safety Analysis Report" as supplemented and amended and the Environmental Report as supplemented and amended.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
    - (1) Duke Energy Florida, LLC, pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess and use the facility;
    - (2) The licensees to possess the facility at the designated location in Citrus County, Florida, in accordance with the procedures and limitations set forth in this license;
    - (3) Duke Energy Florida, LLC, pursuant to the Act and 10 CFR Part 70, to possess at any time special nuclear material configured as reactor fuel, in accordance with the limitations for storage as described in the Final Safety Analysis Report, as supplemented and amended;
    - (4) Duke Energy Florida, LLC, pursuant to the Act and 10 CFR Parts 30, 40 and 70 to possess at any time any byproduct, source and special nuclear material as sealed neutron sources used previously for reactor startup, as fission detectors, and sealed sources for reactor instrumentation and to possess and use at any time any byproduct, source, and special nuclear material as sealed sources for radiation monitoring equipment calibration in amounts as required;

- (5) Duke Energy Florida, LLC, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (6) Duke Energy Florida, LLC, 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;
- (7) Duke Energy Florida, LLC, pursuant to the Act and 10 CFR Parts 30 and 70, to receive and possess, but not separate, that byproduct and special nuclear materials associated with four (4) fuel assemblies (B&W Identification Numbers 1A-01, 04, 05 and 36 which were previously irradiated in the Oconee Nuclear Station, Unit No. 1) acquired by Florida Power Corporation\*\*\* from Duke Power Company for use as reactor fuel in the facility.

Added per  
Amdt. 15,  
7-24-78

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, Section 50.54 and 50.59 of Part 50, Section 70.32 of Part 70; and 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) Deleted per Amendment No. 247
- (2) Technical Specifications  
The Technical Specifications contained in Appendix A are hereby replaced with the Permanently Defueled Technical Specifications (PDTs). Duke Energy Florida, LLC shall maintain the facility in accordance with the Permanently Defueled Technical Specifications, as revised through Amendment No. 249.
- (3) Deleted per Amendment No. 247
- (4) Deleted per Amendment No. 20 dated 7-3-79
- (5) Deleted per Amendment No. 247
- (6) Deleted per Amendment No. 21, 7-3-79
- (7) Deleted per Amendment No. 247
- (8) Deleted per Amendment No. 247
- (9) Deleted per Amendment No. 247
- (10) Deleted per Amendment No. 247

\*\*\*On April 29, 2013, the name "Florida Power Corporation" was changed to "Duke Energy Florida, Inc." On August 1, 2015, Duke Energy Florida, Inc. converted to a limited liability company and the name was changed to "Duke Energy Florida, LLC."

(11) Deleted per Amendment No. 247

(12) Deleted per Amendment No. 237

(13) Deleted per Amendment No. 229

(14) Mitigation Strategy License Condition

The licensee shall develop and maintain strategies for addressing large fires and explosions that include the following key areas:

- (1.) Fire fighting responses strategy with the following elements:
  - a. Pre-defined coordinated fire response strategy and guidance
  - b. Assessment of mutual aid fire fighting assets
  - c. Designated staging areas for equipment and materials
  - d. Command and control
  - e. Training of response personnel
  
- (2.) Operations to mitigate fuel damage considering the following:
  - a. Protection and use of personnel assets
  - b. Communications
  - c. Minimizing fire spread
  - d. Procedures for implementing integrated fire response strategy
  - e. Identification of readily-available pre-staged equipment
  - f. Training on integrated fire response strategy
  - g. Spent fuel pool mitigation measures
  
- (3.) Actions to minimize release to include consideration of:
  - a. Water spray scrubbing
  - b. Dose to onsite responders

(15) Deleted per Amendment No. 247

D. Physical and Cyber Security

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Physical Security Plan, Revision 5," and "Safeguards Contingency Plan, Revision 4," submitted by letter dated May 16, 2006, and "Guard Training and Qualification Plan, Revision 0," submitted by letter dated September 30, 2004, as supplemented by letters dated October 20, 2004, and September 29, 2005.

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved cyber security plan (CSP), including changes made pursuant to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The licensee's CSP was approved by License Amendment No. 238, as supplemented by changes approved by License Amendment Nos. 242 and 245.

- E. Deleted per Amendment No. 247
- F. In accordance with the requirement imposed by the October 8, 1976, order of the United States Court Appeals for the District of Columbia Circuit in Natural Resources Defense Council v. Nuclear Regulatory Commission, No. 74-1385 and 74-1586, that the Nuclear Regulatory Commission "shall make any licenses granted between July 21, 1976 and such time when the mandate is issued subject to the outcome of the proceedings herein," the license issued herein shall be subject to the outcome of such proceedings.
- G. This amended license is effective as of the date of issuance. Facility Operating License No. DPR-72, as amended, shall expire at midnight, December 3, 2016.

} Amdt. #97  
March 31, 1987

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by

Roger S. Boyd, Director  
Division of Project Management  
Office of Nuclear Reactor Regulation

Attachments:  
Appendices A & B - Technical Specifications

Date of Issuance: Jan 28 1977