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 TBAbernathy, DTIE
 ASLAB
 ASLAP

Docket No. 50-335

Florida Power & Light Company
 ATTN: Dr. Robert E. Uhrig
 Director of Nuclear Affairs
 P. O. Box 3100
 Miami, Florida 33101

MAILED 11 1976

Gentlemen:

The Nuclear Regulatory Commission has issued Facility Operating License No. DPR-67 to you for the St. Lucie Plant Unit 1 (copy enclosed). This license authorizes you to operate Unit 1 at steady state reactor core power levels not to exceed 2560 megawatts thermal (rated power) in accordance with the Technical Specifications, Appendices A and B (copy enclosed).

A copy of a related notice, which has been forwarded to the Office of the Federal Register for publication, is enclosed.

Two signed copies of Amendment No. 2 to Indemnity Agreement No. B-76, which covers the activities authorized under License No. DPR-67, are enclosed for your review and acceptance. Please sign and return one copy of the Amendment to this office.

Sincerely,

Original Signed by
 Olan D. Parr, Chief
 Light Water Reactors
 Branch No. 3
 Division of Project Management

Enclosures:

1. Facility Operating License No. DPR-67 w/Technical Specifications
2. Federal Register Notice
3. Amendment No. 2 to Indemnity Agreement B-76

cc: See page 2

I&E
 3/1/76
Ryszchore

OFFICE →	DPM;LWR #3	DPM:LWR #3	ELD	EP	OAI	DPM:LWR #3
SURNAME →	EGoulbourne mji	HRood	Ketchen	DMiller	JSaltzman	ODParr
DATE →	2/23/76	2/26/76	2/27/76	2/27/76	2/1/76	2/27/76

Florida Power & Light
Company

- 2 -

cc: Jack R. Newman, Esq.
Lowenstein, Newman, Reis & Axelrad
1025 Connecticut Avenue, N. W.
Washington, D. C. 20036

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McCarthy, Steel, Hector & Davis
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Miami, Florida 33131

Mr. John L. McQuigg
P. O. Box 1408
Stuart, Florida 33494

Mr. Ed Maroney
Bureau of Intergovernmental Relations
725 South Bronough Street
Tallahassee, Florida 32304

Mr. Waldon B. Lewis
County Administrator
St. Lucie County
P. O. Box 700
Ft. Pierce, Florida 33450

Mr. Shepard N. Moore, Region IV
Environmental Protection Agency
1421 Peachtree Street, N. E., Suite 300
Atlanta, Georgia 30390

Mr. Bruce Blandhard
Environmental Projects Review
Department of the Interior
Room 5321
18th and C Streets, N. W.
Washington, D. C. 20240

Chief-TIRB (2)
Technology Assessment Division
Office of Radiation Programs
EPA, Room 647A, East Tower
Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460

OFFICE ▶						
SURNAME ▶						
DATE ▶						

FLORIDA POWER & LIGHT COMPANY

DOCKET NO. 50-335

ST. LUCIE PLANT, UNIT NO. 1

FACILITY OPERATING LICENSE

License No. DPR-67

1. The Nuclear Regulatory Commission (the Commission) having found that:

- A. The application for license filed by Florida Power & Light Company (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 St. Lucie Plant, Unit No. 1 (facility) has been substantially completed in conformity with Construction Permit No. CPPR-74 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;

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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-67, subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 51 (and with former Appendix D to 10 CFR Part 50) of the Commission's regulations and all applicable requirements of said Part 51 (and former Appendix D) have been satisfied; and

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 Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23, and 70.31.

2. Facility Operating License No. DPR-67 is hereby issued to the Florida Power & Light Company to read as follows:

A. This license applies to the St. Lucie Plant, Unit No. 1, a pressurized water nuclear reactor and associated equipment (the facility), owned by the Florida Power & Light Company. The facility is located on the licensee's site on Hutchinson Island in St. Lucie County, Florida, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 12 through 57) and the Environmental Report as supplemented and amended (Supplements 1 through 9).

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Florida Power & Light Company:

(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 on the licensee's site on Hutchinson Island in St. Lucie County, Florida in accordance with the procedures and limitations set forth in this license;

(2) Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemental and amended;

(3) Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess and use at any time byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;

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- (4) 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;
- (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, Section 50.54 and 50.59 of Part 50, and 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) Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 2560 megawatts (thermal), provided that the construction items, preoperational tests, startup tests, and other items identified in Enclosure 1 to this license have been completed as specified in Enclosure 1. Enclosure 1 is an integral part of, and is hereby incorporated in this license.

(2) Technical Specifications.

The Technical Specifications contained in Appendices A & B attached hereto as Enclosure 2 are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications.

D. The licensee shall maintain in effect and fully implement all provisions of the Commission-approved physical security plan, including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). The approved security plan consists of proprietary documents, collectively titled, "Security Plan, St. Lucie Plant, Florida Power and Light Company", as follows:

Revision No. 4 dated February 12, 1976 submitted with letter dated February 9, 1976, including the exceptions listed in the enclosure to the letter.

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In addition, the following security provisions shall be implemented:

(1) Visitor Log

Personnel who are granted access to the Protected Area and are not covered under the normal badge identification system shall be required to sign in and sign out on a Visitor Log and shall register in the Log specific information as follows: name, date, time, purpose of visit, employment affiliation, citizenship, and name of the individual to be visited.

(2) Personnel Screening

Personnel screening for individuals considered for employment at the St. Lucie Plant after March 6, 1974 shall include a background investigation including a criminal investigation through law enforcement agencies to the extent permitted by local, State and Federal statutes.

The initially approved security plan is presently being modified. The licensee shall implement the modified security plan, after approval by the Commission, prior to exceeding five percent of full rated power.

E. The licensee shall implement the following requirements for the protection of the environment:

(1) The licensee will plant Australian pine or other suitable plants as a light screen along the beach dune line bordering its property to minimize turtle disorientation. In addition perimeter fence lighting will be shielded so that none of the light is diverted skyward.

(2) The licensee will extend the current aquatic biological monitoring program in order to fully assess the effects of Plant operation on the ocean environment. This will include sampling the cooling canal system to determine entrainment effects and monitoring for fish impinged on the travelling screens.

(3) The licensee will monitor concentrations of total residual chlorine at the ocean discharge as necessary to insure that chlorine added for condenser defouling will not be harmful to marine life. If chlorine is determined to be a problem the Licensee will undertake remedial measures considered acceptable by the Commission.

(4) If significant detrimental effects or evidence of irreversible damage are detected by the monitoring programs required by Appendix B of this license, the licensee will provide the Commission with an analysis of the problem and plan of action to be taken subject

OFFICE >	to Commission approval to eliminate or significantly reduce the detrimental effects or damage.			
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Appendix B to this license, the Environmental Technical Specifications, contains requirements that implement these and other environmental conditions of this license.

F. This license is effective as of the date of issuance and shall expire at midnight, July 1, 2010.

FOR THE NUCLEAR REGULATORY COMMISSION

GENERAL INVESTIGATIVE
DIVISION

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

Enclosures:

1. Incomplete Construction Items, Preoperational Tests, Startup Tests, and Other Items Which Must be Completed
2. Appendices A & B - Technical Specifications

Date of Issuance: MAR 03 1976

SEE PERVIOUS YELLOW FOR CONCURRENCES

OFFICE >	DPM: AD	NRR				
SURNAME >	RCYoung	RSBoyd				
DATE >	3/ /76	3/1 /76				

Revision No. 4 dated February 12, 1976 submitted with letter dated February 9, 1976, including the exceptions listed in the enclosure to the letter.

In addition, the following security provisions shall be implemented:

(1) Visitor Log

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(2) Personnel Screening

Personnel screening for individuals considered for employment at the St. Lucie Plant after March 6, 1974 shall include a background investigation including a criminal investigation through law enforcement agencies to the extent permitted by local, State and Federal statutes.

E. This license is effective as of the date of issuance and shall expire at midnight, July 1, 2010.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Enclosures:

- Incomplete Construction Items, Preoperational Tests, Startup Tests, and Other Items Which Must be Completed
- Appendices A & B - Technical Specifications

Date of Issuance:

E.P. Moore for
N. MOORE
2/27/76

(will add. next para. E to Dir.)

OFFICE →	DPM:LWR #3	DPM:LWR #3	DPM:LWR #3	DPM A/D	OELD <i>615</i>	NRR
SURNAME →	EG <i>15</i> Gourne	HRood <i>HR</i>	ODParr	RCDeYoung	<i>Ketchen</i>	RSBoyd
DATE →	2/26/76	2/26/76	2/27/76	2/ 1/76	2/27/76	2/ 1/76

ENCLOSURE 1 TO LICENSE NO. DPR-67
 ST. LUCIE PLANT UNIT NO. 1
 INCOMPLETE CONSTRUCTION ITEMS, PREOPERATIONAL TESTS,
 STARTUP TESTS, AND OTHER ITEMS
WHICH MUST BE COMPLETED

This enclosure identifies certain construction items, preoperational tests, startup tests and other items which shall be completed to the satisfaction of the Commission prior to (1) achieving certain specified operating conditions or (2) proceeding with operations beyond certain specified dates. The licensee shall neither operate the facility beyond the specified operating conditions, nor operate the facility after the specified dates without prior written authorization from the Commission. All items in this enclosure shall be conducted and/or completed in accordance with the applicable section(s) of the Final Safety Analysis Report, as approved in the Safety Evaluation Report, and the Supplements to the Safety Evaluation Report.

A. The following items shall be completed to the satisfaction of the Commission prior to achieving initial criticality:

1. Installation of tornado missile protection for the:
 - a. intake cooling water pumps
 - b. component cooling water pumps
 - c. diesel generator air intakes and exhausts
 - d. diesel generator access doors
 - e. diesel generator fuel oil pumps
 - f. auxiliary feedwater pumps
2. Installation of a temporary tornado-protected connection between the spent fuel pool and the charging system to provide makeup water to the reactor coolant system to accommodate moderator shrinkage upon plant shutdown.
3. Performance of appropriate cold rod drop time tests.
4. Resolution of problem areas in baseline inspection results (Office of Inspection and Enforcement Unresolved Item 76-2/2).

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5. Completion of revision of Hot Ops. 2 sequencing document to include provisions for retesting of hangers and restraints, some of which were not installed during Hot Ops. 1 (Office of Inspection and Enforcement Unresolved Item 75-19/1).
 6. Resolution of the problem of improper containment boundary quality group designation for the piping and valves described in the interim report per 10 CFR 50.55(e) dated January 22, 1976.
- B. The following items shall be completed to the satisfaction of the Commission prior to exceeding five percent of full rated power:
1. Installation of control circuitry providing the capability to energize and de-energize the ECCS miniflow bypass valve operators (V-3659 and V-3660) from the control room.
 2. The licensee shall submit to the Commission a report which demonstrates that the tests to be conducted during power ascension testing meet the intent of items D.l.c. and D.l.d. of Appendix A of Regulatory Guide 1.68, which recommend testing of "Plant response to load swings, including response to automatic dispatcher control, if applicable", and "Automatic control system checkout-steam generator level control, automatic rod control, turbine control", respectively.
 3. After five percent of full rated power is exceeded, the alarm setpoint for the containment area monitors (CIS) shall be less than or equal to 90 mR/hr. Before five percent of full rated power is exceeded, a value of less than or equal to 300 mR/hr is allowed, as a special exception to technical specification 3.3.3.1.
- C. The following items shall be completed to the satisfaction of the Commission prior to completion of power ascension testing:
1. Performance of tests at greater than thirty percent of full rated power to determine the maximum steam generator refill rate which does not result in unacceptable feedwater hammer. The tests shall be conducted by uncovering one steam generator sparger for two hours, and subsequently re-covering it using the auxiliary feedwater system.
 2. Performance of power reactivity coefficient tests at 50%, 80% and 100% of full rated power.

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D. A report summarizing the results of the neutron streaming measurements to be conducted during power ascension testing shall be submitted to the Commission within 30 days of the completion of power ascension testing. If additional shielding is required, a design approved by the Commission shall be installed as soon as practicable, but not later than the first regularly scheduled refueling outage.

E. The following items shall be completed to the satisfaction of the Commission by June 30, 1976:

1. Installation of erosion protection (steel sheetpile groins and bulkheads) in the area of the emergency intake cooling water canal to Big Mud Creek, north of the plant island.
2. Installation of the seismic Category I, permanent, ultimate heat sink barrier dam (not including water flow control gates/valves).
3. The licensee shall provide qualification test records which demonstrate that the balance of plant Class IE electrical equipment, selected prior to issuance of this license for audit by the Commission, has been environmentally qualified. In the event that adequate demonstration is not provided, a supplementary program of qualification verification, acceptable to the Commission, shall be completed.

F. The following items shall be completed to the satisfaction of the Commission by March 31, 1977:

1. Installation of the gates/valves to control water flow in the ultimate heat sink barrier dam.

G. The following items shall be completed to the satisfaction of the Commission by June 30, 1977:

1. Installation of erosion protection for that part of the discharge canal peninsula associated with St. Lucie Plant Unit No. 1.

H. Prior to transfer of spent fuel to the fuel handling building, the fuel handling building charcoal filters shall be installed to the satisfaction of the Commission.

I. The following items shall be completed to the satisfaction of the Commission either (1) prior to startup following the first regularly scheduled refueling outage, or (2) March 1, 1979, whichever occurs first:

1. Installation of the NaOH containment spray additive system.
2. Installation of auxiliary heaters in each train of the shield building ventilation system.

OFFICE >	3.	Installation of redundant and independent valve position indication for the mini flow bypass valves (V-3659 and V-3660).	
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4. Installation of a permanent means of providing a tornado-protected source of makeup water to the reactor coolant system to accommodate moderator shrinkage upon plant shutdown.
5. Installation of the necessary hardware associated with St. Lucie Plant Unit No. 1 to permit future interties to Unit No. 2. The systems to be so intertied are:
 - a. diesel generator fuel oil storage tanks
 - b. auxiliary feedwater system (condensate storage tank)

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-335

FLORIDA POWER & LIGHT COMPANY
(St. Lucie Plant, Unit 1)

NOTICE OF ISSUANCE OF A FACILITY OPERATING LICENSE

Notice is hereby given that the Nuclear Regulatory Commission (the Commission) has issued Facility Operating License No. DPR-67 to Florida Power & Light Company authorizing operation of the St. Lucie Plant, Unit 1, at steady state reactor core power levels not in excess of 2560 megawatts thermal, in accordance with the provisions of the license and the Technical Specifications. The St. Lucie Plant, Unit 1, is a pressurized water nuclear reactor located at the licensee's site on Hutchinson Island in St. Lucie County, Florida.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license. The application for the license complies with the standards and requirements of the Act and the Commission's rules and regulations.

The license is effective as of its date of issuance and shall expire on July 1, 2010.

A copy of (1) Facility Operating License No. DPR-67 complete with Technical Specifications (Appendices "A" and "B"); (2) the report of the Advisory Committee on Reactor Safeguards, dated June 10, 1975;

(3) the Office of Nuclear Reactor Regulation's Safety Evaluation Report dated November 8, 1974, Supplement 1 dated May 9, 1975, and Supplement 2 dated March 1, 1976; (4) the Final Safety Analysis Report and amendments thereto; (5) the applicant's Environmental Report dated May 20, 1971 and supplements thereto; (6) the Draft Environmental Statement dated September 12, 1972, and (7) the Final Environmental Statement dated June 1973, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C. and the Indian River Junior College Library, 3209 Virginia Avenue, Ft. Pierce, Florida. A copy of the license and Safety Evaluation Report and Supplements thereto may be obtained upon request addressed to the United States Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland, this 01 day of MAR 1976

FOR THE NUCLEAR REGULATORY COMMISSION

Olan D. Parr, Chief
Light Water Reactors
Branch No. 3
Division of Project Management

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

Docket No. 50-335

AMENDMENT TO INDEMNITY AGREEMENT NO. B-76

AMENDMENT NO. 2

Effective MAR 01 1976, Indemnity Agreement No. B-76, between Florida Power and Light Company, and the Atomic Energy Commission, dated February 11, 1975, as amended, is hereby further amended as follows:

Item 2a. of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 2 - Amount of financial protection

a. \$1,000,000 (From 12:01 a.m., February 11, 1975 to 12 midnight, FEB 29 1976 inclusive)

\$125,000,000 (From 12:01 a.m., MAR 01 1976)

Item 3 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 3 - License number or numbers

SNM-1514 (From 12:01 a.m., February 11, 1975, to 12:00 midnight, inclusive)

DPR-67 (From 12:01 a.m., MAR 01 1976)

Item 5 of the Attachment to the indemnity agreement is amended by adding the following:



Nuclear Energy Liability Policy (Facility Form) MF-88
Issued by Mutual Atomic Energy Liability Underwriters.

FOR THE UNITED STATES NUCLEAR REGULATORY COMMISSION

Jerome Saltzman, Chief
Antitrust & Indemnity Group
Nuclear Reactor Regulation

Accepted _____, 1976

By _____
FLORIDA POWER AND LIGHT COMPANY

Distribution:
Licensee (2 orig.)
PDR
ELD
Docket Files
Div. Labor Relations
RO
Desk
Indemnity File
IDinitz R/F
DIG R/F

OFFICE	NRR:AIG	NRR:AIG			
SURNAME	IDinitz:na	JSaltzman			
DATE	3/ /76	2/ 76			