

BEFORE THE
UNITED STATES NUCLEAR REGULATORY COMMISSION

Docket No. 50-389

In the Matter of
Florida Power & Light Company

APPLICATION FOR LICENSES
UNDER THE ATOMIC ENERGY ACT OF 1954
AS AMENDED

for

ST. LUCIE PLANT UNIT NO. 2

March , 1980

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FLORIDA POWER & LIGHT COMPANY
APPLICATION FOR OPERATING LICENSE
AND OTHER APPROPRIATE LICENSES AS REQUIRED

General Information

1) Name of Applicant

Florida Power & Light Company

2) Address of Applicant

9250 W. Flagler Street
Miami, Florida

(P. O. Box 529100
Miami, Florida 33152)

3) Description of Business and Organization of Applicant

Applicant is engaged in the electric utility business in the State of Florida. Applicant provides electric service in most of the territory along the east and lower west coasts of Florida including the Cape Canaveral area, the agricultural area around southern and eastern Lake Okeechobee, and portions of central and north central Florida (except most of the Jacksonville area, most of two other municipalities, and all of six other municipalities which have municipal systems).

As of December 31, 1979, Applicant served a total of 2,140,587 customers. As of the same date, net utility plant after depreciation was \$4,421,847,000 including nuclear fuel in process of refinement, conversion, enrichment and fabrication. Revenues for the year ending December 1979 were \$1,933,937,000.

Applicant is a corporation duly authorized and existing under the laws of the State of Florida. The names and post office addresses of its directors and principal officers, all of whom are citizens of the United States, are as follows:

THE UNITED STATES OF AMERICA

DEPARTMENT OF JUSTICE

INVESTIGATION OF THE

ACTIVITIES OF

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NAMES AND ADDRESSES OF DIRECTORS

M. P. Anthony, President, Anthony's, Inc., Post Office Box 2886, West Palm Beach, Florida 33402
George F. Bennett, President, State Street Investment Corporation, 225 Franklin Street, Boston, Massachusetts 02110
David Blumberg, President, Planned Development Corporation, 1440 Brickell Avenue, Miami, Florida, 33131
Jean McArthur Davis, President, McArthur Dairy, Inc., 6851 N.E. 2 Avenue, Miami, Florida 33138
John J. Hudiburg, President, Florida Power & Light Company, 9250 West Flagler Street, Post Office Box 529100, Miami, Florida 33152
Robert B. Knight, 220 Arvida Parkway, Coral Gables, Florida 33156
John M. McCarty, 111 Boston Avenue, Ft. Pierce, Florida 33450
Marshall McDonald, Chairman of the Board, Florida Power & Light Company, 9250 West Flagler Street, Post Office Box 529100, Miami, Florida 33152
Ed H. Price, Jr. President, The Price Company, Inc. (Ellis First National Bank Building of Bradenton, Suite #417), Post Office Box 9270, Bradenton, Florida 33506
Lewis E. Wadsworth, Post Office Box 428, Bunnell, Florida 32010
Gene A. Whiddon, President, Causeway Lumber Company, Inc., Post Office Box 21088, Ft. Lauderdale, Florida 33335

NAMES AND ADDRESSES OF OFFICERS

Marshall McDonald	Chairman of the Board
J. J. Hudiburg	President
E. A. Adomat	Executive Vice President
H. L. Allen	Senior Vice President
D. K. Baldwin	Vice President
E. L. Bivans	Vice President
M. C. Cook	Vice President
B. L. Dady	Vice President & Assistant Secretary
H. J. Dager, Jr.	Vice President
Tracy Danese	Vice President
J. H. Francis, Jr.	Vice President
R. J. Gardner	Vice President
L. C. Hauck	Vice President
J. L. Howard	Vice President & Treasurer
L. C. Hunter	Senior Vice President
W. M. Klein	Vice President
A. D. Schmidt	Vice President
J. G. Spencer, Jr.	Senior Vice President
R. E. Tallon	Group Vice President
R. E. Uhrig	Vice President
R. W. Wall, Jr.	Senior Vice President & Assistant Secretary

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Astrid Pfeiffer
H. P. Williams, Jr.
T. R. Crook, Jr.
R. A. Anderson
S. P. Kemp
J. E. Moore

Secretary
Comptroller
Assistant Comptroller
Assistant Treasurer
Assistant Secretary
Assistant Secretary

The address of the above Officers is 9250 West Flagler Street, Post Office Box 529100, Miami, Florida 33152.

Applicant is not owned, controlled, or dominated by an alien, a foreign corporation, or a foreign government, and is not acting as agent or representative of any other persons in making this Application. The Applicant's stock transfer agent has certified that as of the close of business December 31, 1979, records indicate that 173 foreign stockholders held 68,391.81 shares of common stock. Foreign stockholders constituted 0.48% of total common shareholders and foreign-held stock constituted 0.16% of total common shares outstanding.

4) Class and Period of License Applied for

Applicant requests a class 103 operating license for a period of 40 years from date of issuance. Applicant requests such additional source, special nuclear and by-product material licenses as may be necessary and appropriate to the operation of this facility.

5) Description of Facility and Use to Which Facility Will Be Put

Applicant proposes to operate a nuclear reactor which will supply a turbine generator with a capability of 890 Mwe gross with associated transformer, switchyard, supporting buildings and additional auxiliary systems and facilities as required for a Unit No. 2 output of 802 Mwe net. The nuclear steam supply system is a pressurized water reactor whose maximum output is 2700 Mwt. The design of the balance of plant and related facilities will be such as to accommodate the maximum



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thermal output of the nuclear steam supply system, consequently the major systems and components which bear significantly on the acceptability of the site, including the engineered safeguards systems and the containment, have been evaluated for operation at a power level of 2700 Mwt. This project will be located on Hutchinson Island on the east coast of Florida. The project, (Units 1 & 2) and possible future additions will occupy approximately 100 acres of the site: the remainder will be set aside for a conservation development program.

Attached hereto and made a part hereof is a Final Safety Analysis Report and an Environmental Report - Operating License which contain a description of the site and the facility; an analysis and evaluation of structures, systems, and components; and other material in accordance with the requirements of Sections 50.34 and 51.21 of the regulations of the Nuclear Regulatory Commission.

The proposed power plant is a necessary part of Applicant's continuing expansion of its facilities to provide for a steadily increasing demand for electric power by its customers.

6) Financial Qualifications

Applicant's 1979 Annual Report and Financial & Statistical Report are set forth in attached Exhibit I.

The entire cost of the Applicant's share of the project will be paid for by Applicant from funds available from normal and regular sources for construction of additions to all types of its utility properties. Such funds are (1) treasury funds on hand; (2) funds available from internal sources, principally retained earnings, deferred taxes, investment tax credits - net and provisions for depreciation; (3) short term bank loans

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and commercial paper; and (4) the sale of permanent securities when and as required.

Attached hereto as Exhibit II is a tabulation of the estimated cost of operating the facility.

At the end of the plant's useful lifetime, FPL will prepare a proposed decommissioning plan based on the available information and requirements. FPL has given serious consideration to the matter to date and estimates a decommissioning cost of approximately \$100,000,000. However, in order to maintain some degree of flexibility among the various decommissioning options, no specific plan has been chosen.

Applicant is able to borrow on a short term basis at the prime rate of interest or less. Bond issues sold since 1974 have been rated A by Moody's Investors Service and A+ by Standard & Poor's Corporation (A since 1971, A+ since 1978).

Applicant will obtain appropriate property and liability insurance for this project and its fuel.

The above demonstrates Florida Power & Light Company's ability to obtain the funds necessary to cover the estimated costs of operation plus the estimated costs to safely decommission the facility.

7) Technical Qualifications

Applicant has in operation two nuclear power units of 666 Mwe capacity each, known as Turkey Point Units No. 3 and No. 4, one nuclear power unit of 777 Mwe capacity known as St. Lucie Unit No. 1. The extensive training program for engineering and operating personnel for the Turkey Point Project and St. Lucie - Unit #1 has been expanded and continued as required to train personnel for St. Lucie Plant Unit #2.

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Applicant has contracted with Combustion Engineering Corporation to design and fabricate the nuclear steam supply system. The turbine generator will be supplied by Westinghouse Electric Corporation. Ebasco Services Incorporated will provide engineering and procurement services for the majority of items not furnished by Combustion Engineering and Westinghouse. Florida Power & Light will be responsible for construction services and the administration of the Ebasco, Combustion Engineering and Westinghouse Contracts.

Combustion Engineering will supply the initial core (Batches A, B, and C) as well as Batches D, E, and F.

The technical qualifications of Combustion Engineering and Ebasco are summarized in Exhibit III attached.

8) Completion Dates

The fuel load date of this unit is estimated to be October 30, 1982; the expected commercial operation date is estimated to be May 30, 1983.

9) Regulatory Agencies

The regulatory agencies having jurisdiction over the rates and services incident to the proposed activity is:

Federal Energy Regulatory Commission
825 North Capitol Street, N.E.
Washington, D.C. 20426

Florida Public Service Commission
101 East Gaines Street
Tallahassee, Florida 32304

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10) Publications Circulated in the Area

(a) Trade Publications:

ELECTRIC LIGHT & POWER
1301 South Grove Avenue
Barrington, Illinois 60010

ELECTRICAL SOUTH
1760 Peachtree Road, N.W.
Atlanta, Georgia 30309

ELECTRICAL WORLD
1221 Avenue of the Americas
New York, New York 10020

(b) Daily News Publications:

COMMERCIAL RECORD
416 Clematis St.
West Palm Beach, Florida 33402

NEWS TRIBUNE
P. O. Box 69
Fort Pierce, Florida 33450

PALM BEACH DAILY NEWS
265 Royal Poncianna
Palm Beach, Florida 33480

PALM BEACH POST
2751 South Dixie Highway
West Palm Beach, Florida 33402

PALM BEACH TIMES
2751 South Dixie Highway
West Palm Beach, Florida 33402

MELBOURNE TIMES
2015 South Waverly Place
Melbourne, Florida 32901

THE MIAMI HERALD
1 Herald Plaza
Miami, Florida 33101

BOCA RATON NEWS
P.O. Box 580
Boca Raton, Florida 33432

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(c) Weekly News Publications:

COURIER HIGHLIGHTS
P.O. Box 1486
Jupiter, Florida 33458

JENSEN BEACH MIRROR
P.O. Box 787
Jensen Beach, Florida 33457

VERO BEACH PRESS-JOURNAL
P.O. Box 1268
Vero Beach, Florida 32960

11) Restricted Data

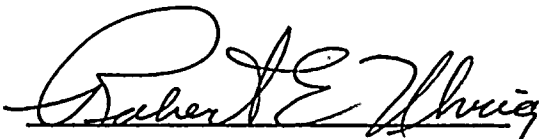
Pursuant to Section 50.37, Applicant agrees not to permit any individual to have access to Restricted Data until the Civil Service Commission shall have made an investigation and report to the Commission on the character, associations, and loyalty of such individual, and the Commission shall have determined that permitting such person to have access to Restricted Data will not endanger the common defense and security.

12) Communications

All communications to Applicant pertaining to this Application should be sent to Dr. R. E. Uhrig, Vice President, Florida Power & Light Company, P.O. Box 529100, Miami, Florida 33152, with a copy to Mr. Harold Reis of Lowenstein, Newman, Reis, Axelrad & Toll, 1025 Connecticut Avenue, N.W., Washington, D.C. 20036.

FLORIDA POWER & LIGHT
COMPANY

By


R. E. Uhrig

THE UNITED STATES OF AMERICA

DEPARTMENT OF JUSTICE

OFFICE OF THE ATTORNEY GENERAL

WASHINGTON, D. C.

1954

STATE OF FLORIDA)
) SS
COUNTY OF DADE)

R. E. Uhrig, being first duly sworn, deposes and says: That he is Vice President of FLORIDA POWER & LIGHT COMPANY, the Applicant herein; and that the statements made in this Application are true and correct to the best of his knowledge, information and belief; and that he is authorized to execute the Application on behalf of said Applicant.

DATED: This 25th day of March, 1980.

Signed *Robert E. Uhrig*

Subscribed and sworn to before me
this 25th day of March, 1980.

Louis J. Marino
Notary Public in and for the
County of Dade, State of Florida

My Commission expires NOTARY PUBLIC STATE OF FLORIDA at LARGE
MY COMMISSION EXPIRES AUGUST 24, 1981
BONDED THRU MAYNARD BONDING AGENCY



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