

August 23, 1979
L-79-232

Director of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Acting Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit 1
Docket No. 50-335
Proposed Amendment to
Facility Operating License DPR-67

Florida Power & Light Company (FPL) submitted a proposed amendment to the St. Lucie Unit 1 Technical Specifications (Appendix A to License DPR-67) on March 15, 1979 (L-79-61) for the purpose of implementing the requirements of 10CFR50, Appendix I. Part of the material proposed for inclusion in the Technical Specifications is presently in the Environmental Technical Specifications (Appendix B to License DPR-67). The purpose of the attached amendment is to remove duplicated material from the Environmental Technical Specifications. Therefore, in accordance with 10CFR50.30, Florida Power & Light Company submits herewith three (3) signed originals and forty (40) copies of a request to amend Appendix B of Facility Operating License DPR-67. We request that this proposal be reviewed concurrently with the March proposal.

The proposed amendment has been reviewed by the St. Lucie Facility Review Group, the Florida Power & Light Company Environmental Review Group, and the Florida Power & Light Company Nuclear Review Board.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS:ltm
Attachment

cc: Mr. James P. O'Reilly, Region II
Harold F. Reis, Esq.

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ADD: EFFL TET BR
HYDRO MITZOR BR
MARKEE
P WAGNER
AD/SITE
TECH

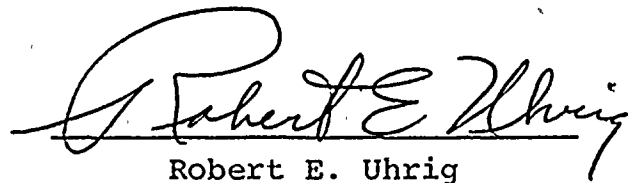
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STATE OF FLORIDA)
)
COUNTY OF DADE) ss.

Robert E. Uhrig, being first duly sworn, deposes and says:

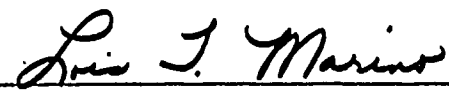
That he is a Vice President of Florida Power & Light Company,
the Licensee herein;

That he has executed the foregoing document; that the state-
ments made in this said document are true and correct to the
best of his knowledge, information, and belief, and that he
is authorized to execute the document on behalf of said
Licensee.


Robert E. Uhrig

Subscribed and sworn to before me this

23rd day of August, 1979



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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ATTACHMENT

Re: St. Lucie Unit 1
Docket No. 50-335
Proposed Amendment (Appendix B)
10 CFR 50, Appendix I

The following deletions from the Environmental Technical Specifications (Appendix B to License DPR-67) should be made in conjunction with Florida Power & Light Company's related proposal to amend the Appendix A Technical Specifications (L-79-61 of March 15, 1979):

<u>PAGE</u>	<u>DESCRIPTION OF CHANGE</u>
i	Delete Sections 1.14, 1.15, and 2.4 from the Table of Contents.
ii	Delete Sections 3.2 and 3.3 from the Table of Contents.
iii	Delete entire page. Tables have been moved to Appendix A.
iv	This page is renumbered iii. Delete 3.2-1 and 3.2-2 from the List of Figures.
1-1	Delete frequency definitions for "semi-annually" and "refueling".
1-2	Delete definitions 1.14 (Batch Releases) and 1.15 (Continuous Release).
2-3	Delete Section 2.4 (Radioactive Effluents).
2-4 through 2-20	Delete these pages in their entirety (Section 2.4).
3-5	Delete Section 3.2 (Radiological Environmental Monitoring).
3-6 through 3-16	Delete these pages in their entirety (Section 3.2).
5-1	The responsibility of the Vice President of Power Resources is revised (Section 5.1, second paragraph).
5-3	Specification 5.3.3.B.9 is deleted.

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<u>PAGE</u>	<u>DESCRIPTION OF CHANGE</u>
5-5	Delete Section 5.6.1.b (Annual Radiological Environmental Monitoring Report).
5-6	Delete entire page (Section 5.6.1.b.).
5-7	Delete Section 5.6.1.c (Semiannual Radioactive Effluent Release Report. The remaining material is moved to the bottom of page 5-5.
5-8 through 5-14	Delete these pages in their entirety (Section 5.6.1.c).
5-15	Delete Section 5.6.2.b (Radioactive Effluent Reports), and renumber as page 5-6.
5-16	Delete the remainder of Section 5.6.2.b, and delete Section 5.6.2.c (Radiological Environmental Surveillance Reports). Renumber as page 5-7.
5-17	Delete Section 5.7.2.c (records of radioactivity levels) and renumber Section 5.7.2.d as 5.7.2.c.
	Correct typographical error in Section 5.7.1.a. The reference at the end of the sentence should be "5.3.3.F.5".
	Move the remaining contents of this page to renumbered page 5-7.

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1.0 DEFINITIONS

The definitions for terms used in these environmental technical specifications are listed below.

1.1 National Power Emergency

Shall mean any event causing authorized Federal officials to require or request that Florida Power and Light supply electricity to points within or without the State of Florida.

1.2 A Regional Emergency

Shall mean any of the following occurrences within the State of Florida: (1) a catastrophic natural disaster including hurricanes, floods, and tidal waves; or (2) other emergencies declared by State, county, municipal, or Federal authorities during which an uninterrupted supply of electric power is vital to public health and safety.

1.3 Reactor Emergency

Shall mean an unanticipated equipment malfunction necessitating prompt remedial action to avoid endangering the public health or safety.

1.4 Circulating Water System

Comprised of the following; velocity cap, intake pipe, intake canal, discharge canal, discharge pipe, "Y" port discharge and miscellaneous mechanical devices. The recirculation canal is included, if constructed.

1.5 Frequency Definitions

Daily - Not less than 360 times per annum.

Weekly - Not less than 48 times per annum - interval may vary by 3 days.

Monthly - Not less than 12 times per annum - interval may vary by 15 days.

Quarterly - Not less than 4 times per annum - interval may vary by 30 days.

1.6 Total Residual Chlorine

The amount of free and combined available chlorine present in water.

1.7 Intake Temperature

The temperature of the cooling water as measured at the plant intake structure.

1.8 Discharge Temperature

The temperature of the cooling water as measured near the terminus of the discharge canal.

1.9 Dissolved Oxygen

Oxygen dissolved in the condenser cooling water, and expressed in milligrams per liter.

1.10 Limiting Conditions

Those conditions to be imposed on plant effluents and operating practices which may have an adverse impact on the environment.

1.11 Continuous Recording

Recording of a measured parameter on a chart by a single pen or a multi-point recorder with less than a one-minute interval between successive printing of the same parameter.

1.12 Channel Calibration

A Channel Calibration shall be the adjustment of the channel output such that it corresponds with specified range and accuracy to known values of the parameter which the channel monitors. The Channel Calibration shall encompass the entire channel including the sensor and alarm and/or trip functions, and shall include the Channel Functional Test.

1.13 Channel Functional Test

A Channel Functional Test shall be the injection of a simulated signal into the channel as close to the primary sensor as practicable to verify operability including alarm and/or trip functions.

2.2.1 Biocides

Specification

Total Residual Chlorine shall not exceed 0.1 mg/l at any time at the terminus of the discharge canal (prior to entering the ocean outfall). If this level is exceeded, adjustments to the injection system shall be made to reduce the concentration, and each succeeding chlorination period shall be monitored until the concentration is within the specification. Chlorine shall not be added for more than 2 hours per day.

Monitoring Requirements

A grab sample of condenser cooling water shall be taken weekly in the discharge canal and analyzed for total residual chlorine. The samples shall be taken during the period of chlorination. The time of beginning the chlorination and when the sample was taken shall be logged.

Bases

When injected, chlorine is diluted by the cooling water and consumed in the process of controlling slime. To be sure that enough chlorine is injected to control the slime, the residual chlorine concentration will be approximately 1 mg/l at the condenser outlet.

2.2.2 pH

Specification

The pH of the cooling water in the discharge canal shall not be less than 6.0 nor greater than 9.0 pH units.

Monitoring Requirement

pH shall be measured on a daily basis in the discharge canal, and it shall be accomplished using either a grab sample or recorder.

Bases

The pH limits set forth will provide reasonable assurance of an acceptable environmental impact when discharging waters to the Atlantic Ocean.

2.3 RESERVED

Reporting Requirement

Results of the biological program shall be reported in the Annual Environmental Monitoring Report.

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ADMINISTRATIVE CONTROLS

The purpose of this section is to describe the administrative and management controls necessary to provide continuing protection to the environment, and to implement the environmental technical specifications (ETS).

5.1

Responsibility

The Director, Licensing & Environmental Planning Department has the ultimate responsibility for the implementation of the ETS. He may delegate to other departments and/or organizations the work of establishing and executing portions of the ETS, but shall retain responsibility thereof.

The Licensing & Environmental Planning Department is responsible for executing the non-radiological biotic and special studies sections of the ETS. The Vice President of Power Resources is responsible for executing the non-radiological abiotic section.

The Director of Quality Assurance shall be responsible for periodic audits, conducted according to the corporate Quality Assurance program, to insure compliance with the ETS.

5.2

Organization

The corporate organization involved in environmental matters is depicted in Figure 5.2-1.

5.3

Review and Audit

5.3.1 Review of implementation of the ETS shall be made by the Company Environmental Review Group (CERG) or by the Facility Review Group (FRG). Secondary reviews shall be made by the Company Nuclear Review Board (CNRB).

5.3.2 FRG and CNRB membership and responsibilities are described in Appendix A, Technical Specifications.

5.3.3 Company Environmental Review Group (CERG)

A. Function

The Company Environmental Review Group (CERG) shall function to advise the Director, Licensing & Environmental Planning Department on all matters related to environmental quality.

B. Membership

1. Manager, Environmental Engineering.- Chairman
2. Manager, Environmental Affairs

3. Environmental Engineer, Environmental Engineering
4. Power Resources Section Supervisor - Test & Performance
5. Environmental Department Life Scientist
6. Environmental Department Senior Project Coordinator
7. Plant Supervisor (Plant involved)
8. Manager - Land Utilization

C. Alternates

Alternate members shall be appointed in writing by the CERG Chairman. No more than two alternates shall participate in CERG activities at any one time.

D. Meeting Frequency

The CERG shall meet at least semiannually and as convened by the CERG Chairman or designated acting Chairman.

E. Quorum

A quorum of the CERG shall consist of the Chairman, or designated acting Chairman and three members including alternates.

F. Responsibilities

1. Review of all Environmental Department procedures required by Environmental Technical Specifications and changes thereto as determined by the Plant Manager to affect the environment.
2. Review results of the environmental monitoring programs prior to their submittal to the NRC.
3. Review of all proposed test and experiments as determined by the Plant Manager to affect the environment.
4. Review of all proposed changes to the Environmental Technical Specifications.
5. Review of all proposed changes or modifications to plant systems or equipment as determined by the Plant Manager to affect the environment.
6. Review of Environmental Technical Specifications reportable occurrences within two months after the event.

- 5.5.2 Plant operating procedures shall include provisions to ensure that plant systems and components are operated in compliance with the environmental technical specifications.

5.6 Reporting Requirements

5.6.1 Routine Reports

5.6.1.a Annual Non-Radiological Environmental Monitoring Report

A report on the environmental surveillance programs for the previous 12 months of operation shall be submitted to the Director of the Regional Office of Inspection and Enforcement with a copy to the Director of the Office of Inspection and Enforcement as a separate document within 90 days after January 1 of each year. In the event that some of the results are not available within the 90 day period, the report shall be submitted noting and explaining the missing results. The missing data shall be submitted as soon as possible in a supplementary report. The period of the first report shall begin with the date of initial criticality. The report shall include summaries and interpretations of the results of the non-radiological environmental surveillance activities (Section 3.0) and the environmental monitoring programs required by Limiting Conditions for Operation. This should also include a comparison with preoperational studies, operational controls (as appropriate), and previous environmental surveillance reports, and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of irreversible damage are detected by the monitoring, the licensee shall provide an analysis of the problem and a proposed course of action to alleviate the problem.

5.6.2 Non-Routine Reports

5.6.2.a Non-Radioactive Effluent Reports

A report shall be submitted in the event that: a) a limiting condition is exceeded (as specified in Section 2.0 Limiting Conditions), or an unusual or important event occurs that causes a significant environmental impact, that affects potential environmental impact from plant operation, or that has high public or potential public interest concerning environmental impact from plant operation. Reports shall be submitted under one of the report schedules described below.

1. Prompt Reports

Those events requiring prompt reports shall be reported within 24 hours by telephone, telegraph, or facsimile transmission to the Director of the Regional Office of Inspection and Enforcement and within 10 days by a written report to the Director of the Office of Inspection and Enforcement.

2. 30-Day Reports

Those events not requiring prompt reports shall be reported within 30 days by a written report to the Director of the Regional Office of Inspection and Enforcement with a copy to the Director of the Office of Inspection and Enforcement.

The reporting schedule for reports concerning limiting conditions shall be reported on the 30-day schedule. Reports concerning unusual or important events shall be reported on the prompt schedule.

Written 10-day and 30-day reports and to the extent possible the preliminary telephone, telegraph, or facsimile reports shall: a) describe, analyze, and evaluate the occurrence, including extent and magnitude of the impact, b) describe the cause of the occurrence and c) indicate the corrective action (including any significant changes made in procedures) taken to preclude repetition of the occurrence and to prevent similar occurrences involving similar components or systems.

The significance of an unusual or apparently important event with regard to environmental impact may not be obvious or fully appreciated at the time of occurrence. In such cases, the NRC shall be informed promptly of changes in the assessment of the significance of the event and a corrected report shall be submitted as expeditiously as possible.

5.6.3 Changes in Environmental Technical Specifications

Request for changes in environmental technical specifications shall be submitted to the Director of Nuclear Reactor Regulation for review and authorization. The request shall include an evaluation of the environmental impact of the proposed change.

5.7 Records Retention

5.7.1 Records and logs relative to the following areas shall be made and retained for the life of the plant:

- a. Records and drawings detailing plant design changes and modifications made to systems and equipment as described in 5.3.3.F.S.
- b. Records of all environmental surveillance data.
- c. Records to demonstrate compliance with the limiting conditions in Section 2.

5.7.2 All other records and logs relating to the environmental technical specifications shall be retained for five years following logging or recording. These shall include (but are not limited to) the following:

- a. Details or any abnormal operating conditions having an effect on the environment, and actions taken to correct those conditions.
- b. Maintenance activities to environment monitoring equipment, including but not limited to:
 - 1) routine maintenance and component replacement,
 - 2) equipment failures,
 - 3) replacement of principal items of equipment.
- c. All reviews, including actions taken and reasons therefor, required in Sections 2, 3, and 4 of this specification.

