P. O. BOX 013100, MIAMI, FL 33101

FPL
FLORIDA POWER & LIGHT COMPANY

November 16, 1978
L-78-366

Office of Nuclear Reactor Regulation
Attn: Mr. Victor Stello, Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Stello:

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

In accordance with 10 CFR 50.30, Florida Power & Light Company herewith submits three (3) signed originals and forty (40) copies of a request to amend Appendix A of Facility Operating License DPR-67.

The proposed amendment is being submitted to support the extension of the safety injection tanks' sample line to the reactor auxiliary building sample room during the April 1979 refueling. The relocation of the sampling point to an area outside of the reactor containment building will reduce the personnel radiation exposures associated with containment entries. The proposed amendment is shown on the attached Technical Specification pages bearing the date of this letter in the lower right hand corner.

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The two proposed containment isolation valves are added to Table 3.6-1, Containment Leakage Paths.

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The two proposed containment isolation valves are added to Table 3.6-2, Containment Isolation Valves.

A written safety evaluation is attached. FPL has determined that this is a Class III amendment in accordance with 10CFR 170.22. A check in the amount of $4,000 is enclosed.

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The proposed amendment has been reviewed by the St. Lucie Plant Facility Review Group and the Florida Power and Light Company Nuclear Review Board. They have determined that the proposed change does not involve an unreviewed safety question.

Yours very truly,

Robert E. Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/WAK/dep

Enclosures

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

TABLE 3.6-1

CONTAINMENT LEAKAGE PATHS

Penetration	System	Valve Tag Number	Location to Containment	Service	Test Type*
7	Makeup Water	Gate (I-MV-15-1) Check (I-V-15-1347)	Outside Inside	Primary Makeup Water	Bypass
8	Station Air	Globe (I-V-18-947) Globe (I-V-18-947)	Outside Outside	Station Air Supply	Bypass
9	Instrument Air	Gate (I-MV-18-1) Check (I-V-18-957)	Outside Inside	Instrument Air Supply	Bypass
10	Containment Purge	Butterfly (I-FCV-25-4) Butterfly (I-FCV-25-5)	Inside Outside	Containment Purge Exhaust	Type C
11	Containment Purge	Butterfly (I-FCV-25-3) Butterfly (I-FCV-25-2)	Inside Outside	Containment Purge Supply	Type C
14	Waste Management	Globe (V-6741) Check (V-6779)	Outside Outside	Nitrogen supply to SI Tanks	Bypass
23	Component Cooling	Butterfly (I-HCV-14-7) Butterfly (I-HCV-14-1)	Outside Outside	RC Pump CW supply	Bypass
24	Component Cooling	Butterfly (I-HCV-14-6) Butterfly (I-HCV-14-2)	Outside Outside	RC Pump CW Return	Bypass
25	Fuel Transfer Tube	Blind Flange	Inside	Fuel Transfer	Bypass
26	CVCS	Globe (V-2515) Globe (V-2516)	Inside Inside	Letdown Line	Bypass
28	Sampling	Globe (V-5200) Globe (V-5203)	Outside Outside	Reactor Coolant Sample	Bypass
		Globe (I-FCV-03-1E) Globe (I-FCV-03-1F)	Outside Outside	SI Tank Sample	Bypass

TABLE 3.6-2 (Continued)

Valve Tag Number	Penetration Number	Function	Testable During Plant Operation	Isolation Time (Sec)
10. I-FCV-26-1 & 2	52a	Radiation monitoring	Yes	NA
11. I-FCV-26-3 & 4	52b	Radiation monitoring	Yes	NA
12. I-FCV-26-5 & 6	52c	Radiation monitoring, return	Yes	NA
13. I-V00140(1325) I-V00143(1325)	52d	ILRT test tap	Yes	NA
14. I-V00139(1322) I-V00144(1322)	52e	ILRT test tap	Yes	NA
15. I-V00101(612)	54	ILRT pressure connection	Yes	NA
16. I-FCV-03-1E & 1F	28	SI Tank Sample	Yes	NA **

NA -- Manual Valve-Isolation time not applicable.
* May be opened on an intermittent basis under administrative control.
** Normally closed valves - Isolation time not applicable.

TABLE 3.6-2 (Continued)

Valve Tag Number	Penetration Number	Function	Testable During Plant Operation	Isolation Time (Sec)
10. I-FCV-26-1 & 2	52a	Radiation monitoring	Yes	NA
11. I-FCV-26-3 & 4	52b	Radiation monitoring	Yes	NA
12. I-FCV-26-5 & 6	52c	Radiation monitoring, return	Yes	NA
13. I-V00140(1325) I-V00143(1325)	52d	ILRT test tap	Yes	NA
14. I-V00139(1322) I-V00144(1322)	52e	ILRT test tap	Yes	NA
15. I-V00101(612)	54	ILRT pressure connection	Yes	NA
16. I-FCV-03-IE & IF	28	SI Tank Sample	Yes	NA **

NA - Manual Valve-Isolation time not applicable.
* May be opened on an intermittent basis under administrative control.
** Normally closed valves - Isolation time not applicable.

RE: ST. LUCIE UNIT 1
DOCKET NO. 50-335
SAMPLING VALVES SAFETY EVALUATION

I. INTRODUCTION

Sampling of the safety injection tanks (SIT) solution is required to meet the SURVEILLANCE REQUIREMENT of Technical Specification 4.5.1.6. The sample tubing from each SIT presently terminates at a sample sink inside the reactor containment building. To reduce the manhours and personnel radiation exposures associated with containment entries, we plan to extend the SIT sampling lines to the primary sampling room in the reactor auxiliary building. This proposed change, shown in the attached sketch, involves the installation of two (2) containment isolation valves at containment penetration number 28. This evaluation supports the addition of these two proposed containment isolation valves to Tables 3.6-1 and 3.6-2 of the St. Lucie Unit 1 Technical Specifications.

II. EVALUATION

The proposed change is designed as Quality Group B, Seismic Class I and is consistent with the design criteria used in existing systems. The electrically operated containment isolation valves will be normally closed, fail closed, and will receive a containment isolation signal (CIS) to close. The CIS will override a manual attempt in the sample room to open these valves.

No single failure of the proposed system would jeopardize plant safety. A tube failure inside containment would be detected by a low level indication for one safety injection tank and/or increased flow rate to sump. The leakage rate would be less than 1.5 gpm, allowing sufficient time for operator action in accordance with the Technical Specifications. The single active failure of one containment isolation valve would be inconsequential and would not cause a leakage path since the other valve would be operable.

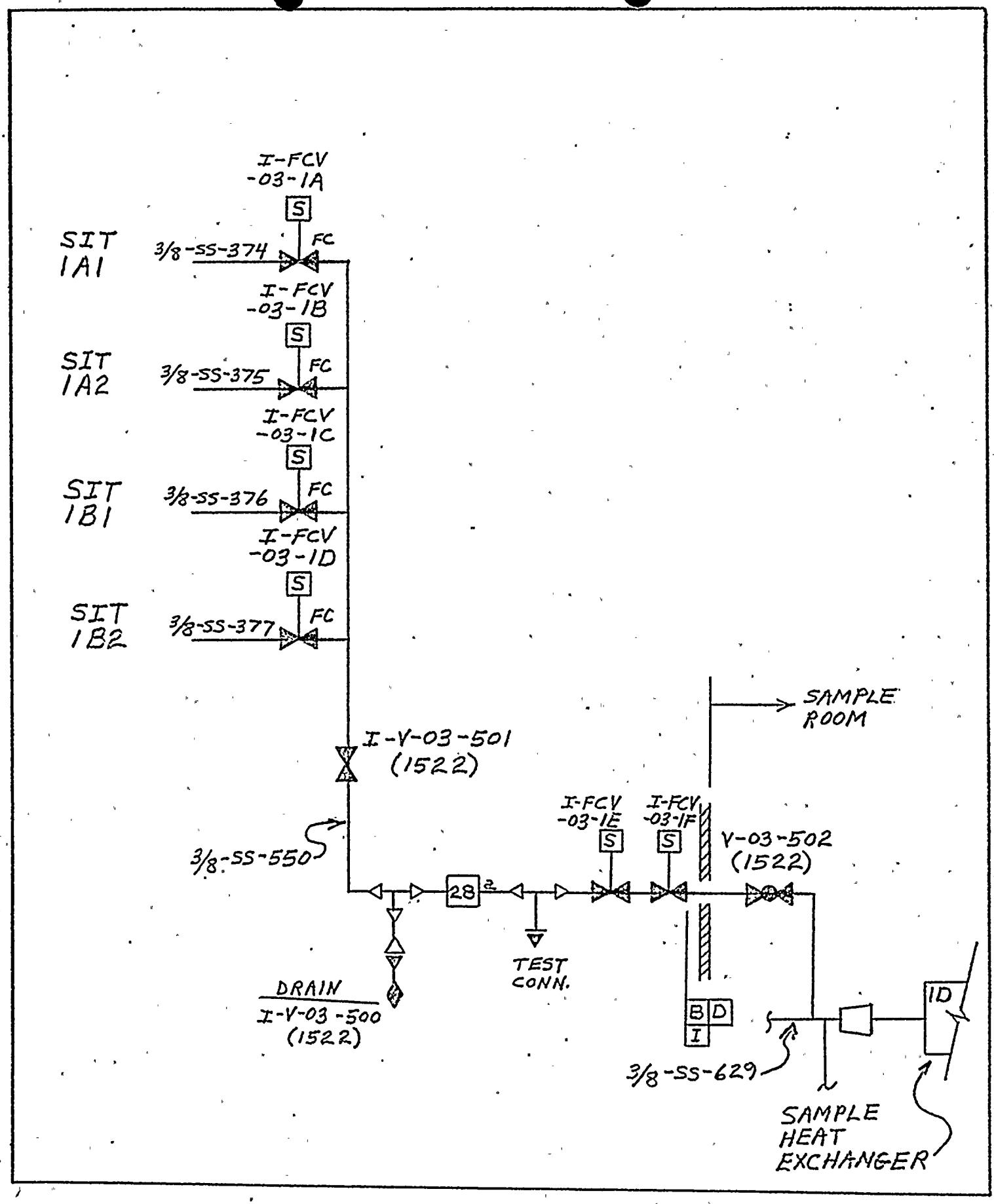
This change involves small diameter (3/8 inch) tubing and valves. A spare containment tubing penetration will be used.

The proposed two new containment isolation valves will receive local leak rate testing in accordance with Technical Specification 4.6.1.2. Operability of these valves will be demonstrated by the SURVEILLANCE REQUIREMENTS of Technical Specification 4.6.3.1.1.

III. CONCLUSIONS

Routing the SIT sample tubing to the sample room will reduce manhours and personnel exposure associated with SIT sampling.

The proposed change does not increase the probability or consequences of accidents or malfunctions of equipment important to safety and does not reduce the margin of safety as defined in the basis for any Technical Specification. This change does not involve a significant hazard consideration and there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner.


I-FCV
-03-1A
S
SIT
1A1
3/8-SS-374
FC
I-FCV
-03-1B
S
SIT
1A2
3/8-SS-375
FC
I-FCV
-03-1C
S
SIT
1B1
3/8-SS-376
FC
I-FCV
-03-1D
S
SIT
1B2
3/8-SS-377
FC
SAMPLE
ROOM
I-V-03-501
(1522)
I-FCV
-03-1E
S
I-FCV
-03-1F
S
V-03-502
(1522)
3/8-SS-550
28
TEST
CONN.
DRAIN
I-V-03-500
(1522)
B
D
I
ID
3/8-SS-629
SAMPLE
HEAT
EXCHANGER

STATE OF FLORIDA)
) ss.
COUNTY OF DADE)

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 statements 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

16 day of November, 1978

Betty Brittain

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 MARCH 27, 1980

NOTARY PUBLIC STATE OF FLORIDA