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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
 AUTH. NAME AUTHOR AFFILIATION
 WOODY, C. O. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 KAHLE, J. B. Region 2, Ofc of the Director

SUBJECT: Forwards results of unknown spiked samples received on 871110, per 871001 request. As instructed, results back decay corrected to 870111.

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JANUARY 11 1988

L-88-10

U. S. Nuclear Regulatory Commission
Attn: Mr. J. B. Kahle, Chief
Radiological Effluents and Chemistry Section
101 Marietta St., N.W., Suite 2900
Atlanta, GA 30323

Dear Mr. Kahle:

Re: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Confirmatory Measurements Program

In response to NRC request dated October 1, 1987, Florida Power & Light Company (FPL) has analyzed at the St. Lucie Plant Chemistry Department unknown spiked samples received on November 10, 1987.

As instructed, the attached results were back decay corrected to January 11, 1987.

Should there be any additional information needed, please contact us.

Very truly yours,

C. O. Woody
Executive Vice President

COW/GRM/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator,
Region II, USNRC (2 copies)
Document Control Desk, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

GRM/028.SSR

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PDR ADOCK 05000335
P PDR

ST. LUCIE PLANT
NRC SPIKED SAMPLE RESULTS

<u>Nuclide</u>	<u>micro-Curies/milli-Liter</u>
H-3	2.04 E-05
Fe-55	1.60 E-05
Sr-89	*
SR-90	2.43 E-06

- * - Denotes that the percent uncertainty for Sr-89 based on Sr-89/90 gross counts minus Y-90 counts makes it too statistically inaccurate to meet the NRC Criteria of Acceptance. Reanalysis of the sample would not improve on the poor statistical data since Sr-89 was at least 10 times less than Sr-90 due to decay (5.2 half-lives) at analysis time. To provide an accurate cross-check for Sr-89, we request a more current Strontium split sample be provided where Sr-89 has not undergone excessive decay relative to Sr-90. For information, the Sr-89 activity in the above sample was 1.08 E-05 micro-Curies/milli-liter on January 11, 1987 with an uncertainty of 50%, which is not acceptable.