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 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
 AUTH. NAME WOODY, C. O. AUTHOR AFFILIATION Florida Power & Light Co.
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SUBJECT: "Quarterly Turtle Activities Rept for Fourth Quarter 1987."

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JANUARY 21 1988

L-88-33

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Quarterly Turtle Activities Report

Attached for your information is a copy of the subject report for the fourth quarter of 1987, which was submitted to the Florida Department of Natural Resources Marine Research Laboratory on January 5, 1988.

Very truly yours,


C. O. Woody
Executive Vice President

COW/GRM/gp

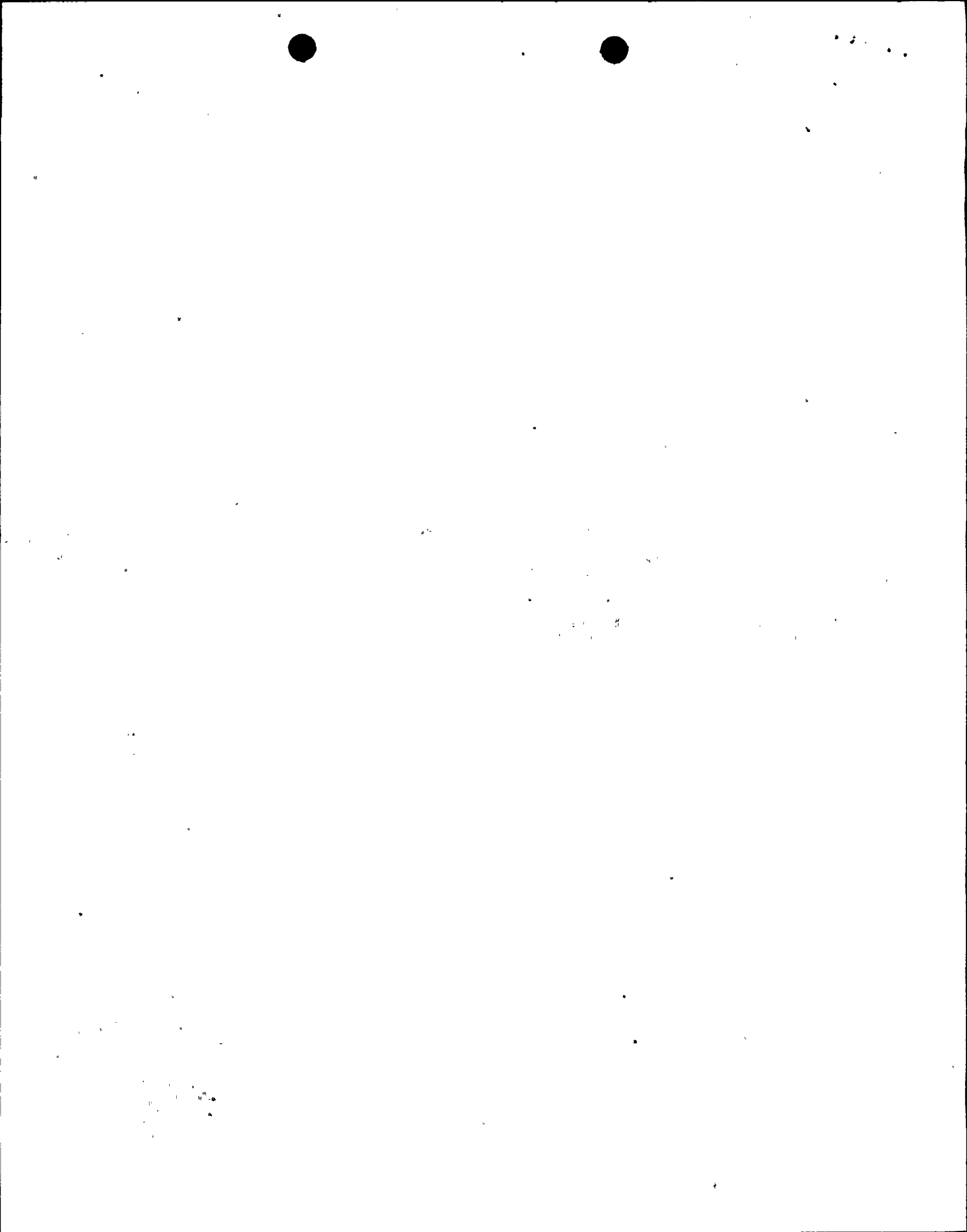
Attachment

cc: Dr. J. Nelson Grace, Regional Administrator,
Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

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ENVIRONMENTAL
H E A L T H
SPECIALISTS

RECEIVE

JAN 6 1988

Env'l. Affairs

R. Erik Martin
Applied Biology, Inc.
P.O. Box 974
Jensen Beach, FL 34958

January 5, 1988

Mr. J. Alan Huff
Florida Department of
Natural Resources
Bureau of Marine Research
100 Eighth Avenue, S.E.
St. Petersburg, FL 33701-5095

Dear Alan:

Seventeen loggerhead turtles, sixteen green turtles and one Kemp's ridley turtle were removed from the St. Lucie Plant intake canal during the October-December quarter of 1987. One of the loggerheads was emaciated and lethargic when captured and was therefore transferred to a tank at the House of Refuge Museum. This turtle died the day after it was captured (see footnote for turtle captured on 11/5/87).

A juvenile green turtle, captured on 12/14/87, had papillomas at the bases of all flippers and on the eyes. The papillomas did not appear to hinder movement of the limbs or to obstruct the turtle's vision. Since the turtle was active and appeared to be of normal weight, it was released.

Measurements for all animals are attached. All of the live turtles were released into the ocean off Hutchinson Island. No turtles were reported from other plants.

Please feel free to contact me if you have any questions concerning the enclosed data.

Sincerely,

R. Erik Martin
Senior Scientist

Enclosure

cc: J.R. Wilcox (FPL)
C.A. Oravetz (NMFS)
B.A. Schroeder (NMFS)
R.G. Ernest (ABI)

MARINE TURTLE REMOVALS

OCTOBER 1987

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBER</u>	<u>CARAPACE LENGTH</u> (mid-line)(curved) <u>(cm)</u> <u>(cm)</u>		<u>CARAPACE WIDTH</u> <u>(cm)</u>	<u>PLASTRON LENGTH</u> <u>(cm)</u>	<u>TOTAL TAIL LENGTH</u> <u>(mm)</u>	<u>WEIGHT</u> <u>(lbs)</u>
ST. LUCIE PLANT INTAKE CANAL								
Live Removals								
10/6	<u>C. caretta</u> ¹	AAJ533 PPN345	89.2	94.9	86.2	69.1	197	193
10/19	<u>C. caretta</u> ¹	AAJ534 PPN351	88.8	98.6	90.5	68.9	202	227
10/29	<u>C. caretta</u>	AAJ535 PPN352	58.5	63.9	62.0	45.7	133	69

¹Female.

MARINE TURTLE REMOVALS

NOVEMBER 1987

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBER</u>	<u>CARAPACE LENGTH (mid-line)</u> <u>(cm)</u>	<u>CARAPACE LENGTH (curved)</u> <u>(cm)</u>	<u>CARAPACE WIDTH</u> <u>(cm)</u>	<u>PLASTRON LENGTH</u> <u>(cm)</u>	<u>TOTAL TAIL LENGTH</u> <u>(mm)</u>	<u>WEIGHT</u> <u>(lbs)</u>
ST. LUCIE PLANT INTAKE CANAL Live Removals								
11/5	<u>C. caretta</u> ¹	AAJ537 PPN346	66.9	72.5	68.4	52.1	152	90
11/10	<u>C. caretta</u> ²	PPN347	71.0	83.2	78.3	57.8	152	135
11/12	<u>C. mydas</u>	PPN348 PPN349	29.0	30.6	26.8	24.3	55	7.7
11/13	<u>C. caretta</u>	AAJ538 PPN350	63.6	75.2	71.3	54.7	160	120
11/18	<u>C. mydas</u>	PPN353 PPN354	38.3	40.2	33.5	31.6	59	14.4
11/20	<u>C. caretta</u>	AAJ539 PPN355	53.5	58.3	55.6	41.1	124	51
11/24	<u>C. mydas</u>	PPN356 PPN357	32.6	34.3	29.7	27.9	48	10.5
11/25	<u>C. mydas</u>	PPN358 PPN359	26.7	28.4	24.6	22.3	46	6.3
11/28	<u>C. caretta</u> ²	PPN360	71.1	79.3	76.0	54.3	155	119
11/30	<u>C. mydas</u>	PPN361 PPN362	30.6	32.1	27.3	25.7	55	8.2

¹This emaciated and lethargic turtle was transferred to the House of Refuge on 5NOV87. It died on 6NOV87. Tissues were removed and preserved for future analysis.

²Right front flipper missing, therefore, only one tag applied.

NOTE: AAJ536 malfunctioned and was not applied to a turtle.

MARINE TURTLE REMOVALS

DECEMBER 1987

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBER</u>	<u>CARAPACE LENGTH</u> (mid-line)(curved) (cm) (cm)		<u>CARAPACE WIDTH</u> (cm)	<u>PLASTRON LENGTH</u> (cm)	<u>TOTAL TAIL LENGTH</u> (mm)	<u>WEIGHT</u> (lbs)
ST. LUCIE PLANT INTAKE CANAL Live Removals								
12/1	<u>C. mydas</u>	AAJ540 PPN363	67.7	72.2	67.4	55.5	152	92
12/1	<u>C. mydas</u>	AAJ541 PPN364	63.5	67.6	62.8	52.3	121	77
12/3	<u>L. kempfi</u>	PPN365 PPN366	40.2	42.5	44.3	32.2	80	20
12/3	<u>C. mydas</u>	PPN368 PPN369	27.5	28.9	25.5	23.4	55	6.2
12/3	<u>C. caretta</u>	AAJ542 PPN367	54.8	59.9	55.5	43.1	105	58
12/4	<u>C. mydas</u>	NNC631 PPN370	24.9	26.5	23.3	20.6	42	4.9
12/8	<u>C. caretta</u>	AAJ544 PPN371	65.4	70.1	64.9	52.1	105	90
12/9	<u>C. caretta</u>	AAJ545 PPN372	49.9	54.0	51.2	39.3	112	43
12/9	<u>C. caretta</u>	AAJ546 PPN373	72.5	80.8	73.5	56.5	179	127
12/11	<u>C. caretta</u>	AAJ547 PPN374	61.1	66.1	63.6	47.6	120	69
12/11	<u>C. mydas</u>	AAJ548 PPN375	70.8	75.0	64.0	58.4	160	100
12/14	<u>C. mydas</u> ¹	NNC633 PPN376	41.4	44.4	37.2	35.3	67	18.8
12/15	<u>C. mydas</u>	NNC635 PPN378	34.1	36.2	33.2	28.2	66	12.1
12/16	<u>C. mydas</u>	NNC634 PPN377	29.3	31.4	27.9	24.1	53	6.8
12/18	<u>C. caretta</u>	AAJ551 PPN379	50.8	56.8	54.5	41.9	111	46

DECEMBER 1987

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBER</u>	<u>CARAPACE LENGTH (mid-line) (cm)</u>	<u>CARAPACE LENGTH (curved) (cm)</u>	<u>CARAPACE WIDTH (cm)</u>	<u>PLASTRON LENGTH (cm)</u>	<u>TOTAL TAIL LENGTH (mm)</u>	<u>WEIGHT (lbs)</u>
ST. LUCIE PLANT INTAKE CANAL Live Removals								
12/22.	<u>C. mydas</u>	PPN380 PPN381	27.4	28.9	25.2	22.5	43	6.4
12/28	<u>C. caretta</u>	AAJ552 PPN382	57.3	62.2	58.9	43.1	127	52
12/29	<u>C. mydas</u>	NNC636 PPN383	27.7	29.4	25.0	23.0	47	6.0
12/29	<u>C. caretta</u> ²	AAJ553 PPN384	90.8	98.9	88.0	62.5	462	228
12/30	<u>C. caretta</u>	AAJ549 PPN385	58.9	64.5	60.8	46.8	145	70
12/31	<u>C. mydas</u> ³	PPN386 PPN387	32.4	34.8	29.5	26.8	65	10.0

¹Papillomas on bases of flippers and eyes.

²Male.

³Because it was somewhat lethargic, this turtle was held in a tank at the Environmental Studies Center until 2JAN88. On that date it was released and appeared to be in good condition.

NOTE: AAJ543 malfunctioned and was not applied to a turtle.