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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
 SAGER, D.A. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: "Marine Turtle Removals St Lucie Plant Intake Canal, Oct-Dec 1989." W/900123 ltr.

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JANUARY 23 1990

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

Gentlemen:

Re: St. Lucie Unit Nos. 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 1989, which was submitted to the Florida Department of Natural Resources, Florida Marine Research Institute on January 3, 1990.

Very truly yours,

DA Sager
D. A. Sager
Vice President
St. Lucie Plant

DAS/MSD/gp

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II,
USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

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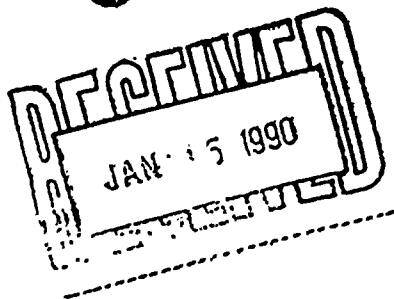
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ENVIRONMENTAL
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Applied Biology, Inc.
P.O. Box 974
Jensen Beach, FL 34958

January 3, 1990

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

Dear Alan:

Ten loggerhead turtles and three green turtles were removed from the St. Lucie Plant intake canal during the October - December quarter of 1989. One of the loggerheads was dead when removed. All live turtles were released into the ocean from Hutchinson Island. Measurements for all animals are attached.

As always, feel free to contact me if you have any questions concerning the enclosed information.

Sincerely,

R. Erik Martin
Senior Scientist

REM/mnm
enclosure

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

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MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
OCTOBER - DECEMBER 1989

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals									
101089	<u>C. caretta</u>	AAJ772/PPW429	81.9	83.8	88.9	78.0	60.0	62.3	162
101189	<u>C. caretta</u>	AAJ773/PPW430	66.4	67.8	72.0	66.4	56.0	51.5	92
101689	<u>C. mydas</u>	PPW431/PPW432	32.2	32.5	34.1	28.1	26.5	26.7	9.7
102789	<u>C. caretta</u>	AAJ774/PPW433	56.9	58.9	63.0	60.6	50.4	45.1	63
110689	<u>C. caretta</u>	AAJ775/PPW434	64.3	65.9	70.8	65.5	53.8	48.5	89
111489	<u>C. caretta</u>	AAJ776/PPW435	58.3	60.0	64.4	60.4	49.1	45.1	62
112089	<u>C. caretta</u> ¹	AAJ777/PPW436	90.6	92.0	97.5	92.3	72.1	72.4	230
112289	<u>C. caretta</u> ²	BP514/X275	50.0	52.6	56.0	53.2	43.3	41.2	44
120589	<u>C. caretta</u> ³	BP514/X275	49.6	52.4	56.0	53.6	43.3	40.9	44
120689	<u>C. caretta</u>	AAJ778/PPW438	51.2	52.2	55.5	55.3	45.6	42.1	54
122689	<u>C. mydas</u>	PPW439/PPW440	26.5	26.8	27.8	23.4	21.2	21.7	4.9
122789	<u>C. mydas</u>	PPW441/PPW442	24.6	25.1	26.2	22.9	20.1	21.0	4.5
Dead Removals									
112089	<u>C. caretta</u> ⁴	Not Tagged	86.0	86.9	90.9	85.6	62.4	NM	NM

¹Female.

²Recapture. This turtle was initially captured in the Indian River Lagoon, two miles south of the Sebastian Inlet, by University of Central Florida researchers on 29JUN88. On that date it was tagged X274/X275. It was recaptured at the same location on 31JAN89 and tag BP514 was applied to the right front flipper. When it was removed from the St. Lucie Plant intake canal on 22NOV89 only tags BP514 and X275 were present. These tags were in good shape and left in place.

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MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
OCTOBER - DECEMBER 1989

3Recapture. This turtle was removed from the St. Lucie Plant intake canal and released 10 km south of the intake on 22NOV89. Both tags were still in good shape and left in place. No other tags were applied.

4Male

NOTE: Tag PPW437 malfunctioned and was not applied to a turtle.

SMCL = straight minimum carapace length
SSCL = straight standard carapace length
CSCL = curved standard carapace length
CMCW = curved maximum carapace width
SMCW = straight maximum carapace width
SMPL = straight midline plastron length

NM = Not measured



10-10-10

10-10-10