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       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: "Quarterly Turtle Activities Rept for Third Quarter 1990."  
 W/901117 ltr.

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P.O. Box 14000, Juno Beach, FL 33408-0420

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U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 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 third quarter 1990, which was submitted to the Florida Department of Natrual Resources, Florida Marine Research Institute on October 8, 1990.

Very truly yours,

*D.A. SAGER*

*By*

*H.J. Bousy*

D. A. Sager  
Vice President  
St. Lucie Plant

DAS:JJB:kw

Attachment

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

DAS/PSL #291

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OCT 11 1990

MANAGER  
ENVIRONMENTAL AFFAIRS

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

October 8, 1990

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ENVIRONMENTAL AFFAIRS

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

Dear Alan:

Twenty-seven loggerhead turtles were removed from the St. Lucie Plant intake canal during the July - September quarter of 1990. One loggerhead was dead when removed from the canal. All live turtles were released into the ocean from Hutchinson Island. Measurements for all animals are attached.

Also, Dr. Wilcox has forwarded three reports of turtles being removed from the Port Everglades Plant intake canal by Florida Power & Light personnel. Two of the turtles were not identified. One was removed on 17 August and weighed approximately 100 pounds; the other was removed on 26 August and weighed approximately 200 pounds. Both were released alive. In addition, six live loggerhead hatchlings were removed on 4 September and taken to Ocean World.

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

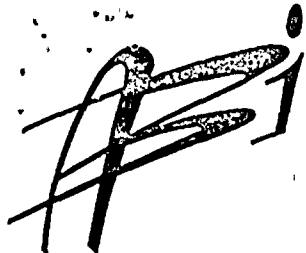
Sincerely,



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)



ENVIRONMENTAL  
H E A L T H  
SPECIALISTS

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NEW YORK

IN SENATE

MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
JULY - SEPTEMBER 1990

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals									
070290	<u>C. caretta</u> <sup>1</sup>	AAJ852/PPW617	76.6	78.3	83.7	90.0	71.7	61.5	209
070290	<u>C. caretta</u> <sup>2</sup>	AAJ853/PPW618	96.2	97.1	102.6	97.4	72.0	75.7	283
070290	<u>C. caretta</u> <sup>3</sup>	AAJ854/PPW620	94.0	95.1	100.2	92.5	69.0	73.3	232
070690	<u>C. caretta</u> <sup>3</sup>	AAJ855/PPW621	90.0	91.0	96.5	85.7	66.1	69.0	238
070990	<u>C. caretta</u>	AAJ856/PPW622	83.0	83.8	89.5	79.0	61.2	62.5	158
071390	<u>C. caretta</u> <sup>3</sup>	AAJ857/PPW623	99.9	100.2	106.2	97.0	75.2	75.4	324
071690	<u>C. caretta</u>	AAJ858/PPW624	81.5	81.8	86.9	79.3	67.1	61.9	167
071890	<u>C. caretta</u>	AAJ859/PPW625	82.6	83.9	88.5	81.8	60.6	62.5	164
071990	<u>C. caretta</u>	AAJ860/PPW526	62.9	64.2	68.2	64.7	50.6	47.0	78
072490	<u>C. caretta</u> <sup>3</sup>	AAJ861/PPW527	100.4	102.1	106.7	93.4	72.6	74.0	274
072490	<u>C. caretta</u>	AAJ862/PPW528	70.3	71.2	75.5	70.8	55.6	53.3	95
072490	<u>C. caretta</u> <sup>3</sup>	AAJ863/PPW529	90.9	93.2	100.3	93.4	72.0	69.0	228
072690	<u>C. caretta</u> <sup>3</sup>	AAJ864/PPW530	87.1	89.8	93.9	83.5	63.5	68.3	204
072690	<u>C. caretta</u>	AAJ865/PPW531	75.9	76.7	81.8	71.8	57.2	60.7	130
072790	<u>C. caretta</u> <sup>3</sup>	AAJ866/PPW532	89.9	91.1	97.8	91.3	72.5	69.1	240
072790	<u>C. caretta</u> <sup>3</sup>	AAJ867/PPW533	89.9	91.6	97.3	89.7	65.6	69.2	231
080390	<u>C. caretta</u> <sup>3</sup>	AAJ869/PPW534	91.7	92.7	99.2	91.8	67.9	72.4	235
080690	<u>C. caretta</u> <sup>3</sup>	AAJ870/PPW535	NM	91.5	96.0	88.2	67.6	70.7	227
080890	<u>C. caretta</u>	AAJ871/PPW536	46.4	47.4	51.9	49.8	40.9	37.1	36
081590	<u>C. caretta</u> <sup>4</sup>	AAJ872/PPW388	78.0	79.7	85.7	75.9	58.1	59.0	148
090490	<u>C. caretta</u>	AAJ873/PPW537	59.0	60.3	65.1	60.0	48.7	45.0	60



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MARINE TURTLE REMOVALS  
 ST. LUCIE PLANT INTAKE CANAL  
 JULY - SEPTEMBER 1990

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals (cont'd)									
090690	<u>C. caretta</u> <sup>5</sup>	AAJ874/PPW538 PPW349	63.4	64.6	67.5	64.0	52.6	50.4	83
090790	<u>C. caretta</u> <sup>6</sup>	AAJ808/PPW498	54.2	55.0	58.7	57.6	47.0	42.6	57
091090	<u>C. caretta</u> <sup>7</sup>	AAJ875/PPW539	87.6	88.5	95.4	85.2	66.7	65.6	223
091990	<u>C. caretta</u>	PPW540/PPW541	52.6	53.6	58.3	54.8	46.5	42.3	50
092690	<u>C. caretta</u> <sup>8</sup>	AAJ876/PPW542	49.6	50.9	55.9	53.6	45.0	38.2	40
Dead Removals									
092490	<u>C. caretta</u>	Not Tagged	79.5	80.1	84.2	78.2	60.1	NM	NM

<sup>1</sup>Carapace shape abnormal.

<sup>2</sup>Female. This turtle was reported to have nested 4.5 km south of the intake on the evening of 3 JUL 90.

<sup>3</sup>Female.

<sup>4</sup>ABI recapture. This turtle was removed from the intake canal, tagged (AAJ416/PPD763) and released 2.5 km south of the intake on 16 APR 87. When it was recaptured in the intake canal on 21 JUL 89, AAJ416 was missing. Two additional tags (AAJ752/PPW388) were applied to the turtle and it was released 1.0 km south of the intake. When it was recaptured on 15 AUG 90, AAJ752 and PPD763 were missing.

<sup>5</sup>ABI recapture. This turtle was removed from the intake canal, tagged (AAJ723/PPW349) and released 2.5 km south of the intake canal on 30 MAY 89. When it was recaptured on 6 SEP 90, AAJ723 was missing.

<sup>6</sup>ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake canal on 2 MAY 90.

<sup>7</sup>Male.

<sup>8</sup>This turtle had monofilament line (~2 ft) entangled on the tip of the left front flipper when captured. The entangled line was removed before the turtle was released.



Handwritten marks and characters in the top right corner, including what appears to be the number '10' and some illegible symbols.

118



NOTE: Tags AAJ868 and PPW619 malfunctioned and were 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