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       50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.      05000389  
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 SAGER, D.A.      Florida Power & Light Co.  
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SUBJECT: Forwards quarterly turtle activities rept for Oct-Dec 1990.

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JAN 24 1991

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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 fourth quarter 1990, which was submitted to the Florida Department of Natural Resources, Florida Marine Research Institute on January 2, 1991.

Very truly yours,

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

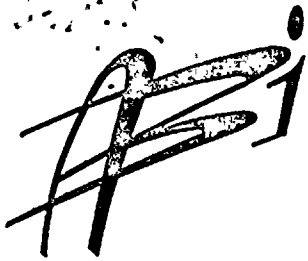
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Applied Biology, Inc.  
P.O. Box 974  
Jensen Beach, FL 34958

January 2, 1991

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JAN - 8 1991

MANAGER  
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:

Eight loggerhead turtles and five green turtles were removed from the St. Lucie Plant intake canal during the October - December quarter of 1990. All were released into the ocean from Hutchinson Island. Measurements for all animals are attached.

Also, Dr. Wilcox has forwarded a report of a sea turtle being removed from the Port Everglades Plant intake canal by FPL personnel. The turtle was removed on 4 December and weighed approximately 75 pounds. It was released alive.

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)

MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
OCTOBER - DECEMBER 1990

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals									
100390	<u>C. caretta</u>	AAJ877/PPW543	47.7	49.0	52.1	49.3	41.7	38.8	34
101090	<u>C. mydas</u>	PPW544/PPW545	36.6	37.1	38.3	31.5	28.0	30.5	11.4
101190	<u>C. caretta</u> <sup>1</sup>	AAJ874/PPW349 PPW538	63.5	64.6	67.5	64.3	52.5	50.3	81
101590	<u>C. caretta</u> <sup>2</sup>	AAJ874/PPW349 AAJ878/PPW538	63.4	64.7	67.8	64.1	52.6	50.3	80
102490	<u>C. caretta</u>	AAJ879/PPW546	55.2	56.0	62.5	60.0	49.2	44.0	58
103090	<u>C. mydas</u> <sup>3</sup>	PPW547/PPW548 PPV304	38.9	39.4	41.3	33.8	30.3	32.2	15.2
110790	<u>C. mydas</u>	PPW549/PPW550	27.6	27.8	29.3	25.2	23.4	23.0	6.5
110890	<u>C. caretta</u>	AAJ880/PPW551	48.5	49.5	52.6	51.7	43.1	39.4	43
112690	<u>C. mydas</u>	BBC301/PPW552	32.5	32.8	35.6	31.2	27.1	26.4	13.1
121990	<u>C. mydas</u>	BBC302/PPW553	51.4	52.3	54.6	50.0	44.3	44.2	42
121990	<u>C. caretta</u>	BBC303/PPW554	79.4	79.8	88.5	78.2	61.2	59.9	162
122090	<u>C. caretta</u>	BBC304/PPW555	53.9	54.5	57.9	56.0	47.1	43.0	51
122790	<u>C. caretta</u>	BBC305/PPW556	78.2	78.7	86.4	78.1	63.7	63.1	162

<sup>1</sup>ABI recapture. This turtle was removed from the intake canal, tagged (AAJ723/PPW349) and released 2.5 km south of the intake on 30 MAY 89. When it was recaptured in the intake canal on 6 SEP 90, AAJ723 was missing. Tags AAJ874 and PPW538 were applied on that date and the turtle was released just south of the intake.

<sup>2</sup>ABI recapture. This turtle was removed from the intake canal and released 8.0 km south of the intake on 11 OCT 90 (see Footnote 1 for prior captures). Tag AAJ878 was applied on 15 OCT 90.

<sup>3</sup>Tag return. FDNR headstart turtle (1987 hatch). This turtle was tagged (PPV304) and released from Stuart Beach (15.3 km south of the intake) on 20 MAY 88. Upon recapture on 30 OCT 90, PPV304 was removed and PPW547 and PPW548 were applied.

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

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