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 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
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 WOODY, C.O. Florida Power & Light Co.
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SUBJECT: Forwards Second Quarter 1989 turtle activities rept.

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AUGUST 2 1989

L-89-277


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 second quarter 1989, which was submitted to the Florida Department of Natural Resources, Florida Marine Research Institute on July 10, 1989.

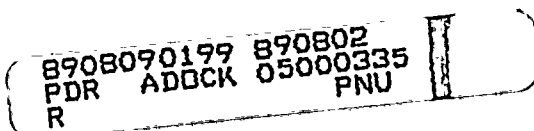
Very truly yours,


C. O. Woody
Acting Senior Vice President - Nuclear

COW/MSD/gp

Attachment

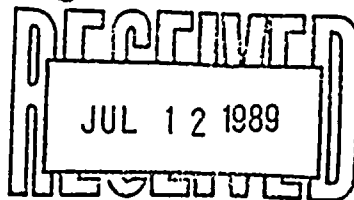
cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant



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ENVIRONMENTAL
H E A L T H
SPECIALISTS



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

July 10, 1989

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

Dear Alan:

Forty loggerhead turtles, five green turtles and one Kemp's ridley were removed from the St. Lucie Plant intake canal during the April-June quarter of 1989. All forty-six turtles were released alive into the ocean from Hutchinson Island. Measurements for all animals are attached.

In addition, we received a report from Dr. J. Ross Wilcox that a loggerhead turtle (weight = ~200 lbs) was captured at the Port Everglades Plant on 12 May 1989. This turtle was released in good condition on the same date that it was captured.

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
APRIL - JUNE 1989

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals									
040389	<u>C. caretta</u> ¹	AAJ703/PPW323	88.9	91.9	98.0	93.0	72.6	72.9	279
040489	<u>C. caretta</u> ¹	AAJ704/PPW324	81.7	82.9	87.4	86.7	69.9	66.1	184
040689	<u>C. caretta</u>	AAJ705/PPW325	58.6	59.9	63.2	62.5	49.7	45.5	72
040689	<u>C. mydas</u>	PPW326/PPW327	49.1	50.0	52.0	50.1	43.5	42.0	42
041189	<u>C. caretta</u> ²	AAJ706/PPW328	94.4	95.7	109.0	98.3	76.7	67.8	255
041689	<u>L. kempfi</u> ³	PPW329	32.9	33.2	34.9	34.5	30.0	26.3	10.6
041789	<u>C. mydas</u>	PPW330/PPW331	NM	28.7	30.0	24.9	22.3	23.2	5.9
041789	<u>C. caretta</u>	AAJ707/PPW332	56.4	57.6	61.2	57.8	47.2	42.7	58
041889	<u>C. caretta</u> ²	AAJ708/AAJ709	93.9	94.3	99.0	93.4	76.0	68.9	256
041989	<u>C. caretta</u>	AAJ710/AAJ711	69.0	69.9	75.3	70.4	55.9	53.5	94
042489	<u>C. mydas</u>	PPW333/PPW334	29.7	30.0	31.5	28.1	25.0	24.7	7.6
042689	<u>C. caretta</u> ¹	AAJ712/PPW335	92.7	94.4	98.5	86.7	69.3	73.3	274
042689	<u>C. caretta</u>	AAJ713/PPW336	63.3	64.1	67.1	64.1	50.9	46.9	70
042789	<u>C. caretta</u> ⁴	PPW337	59.2	61.5	65.1	65.2	50.5	45.3	68
042889	<u>C. caretta</u>	AAJ714/PPW338	67.5	68.4	73.0	67.8	55.4	51.7	84
050289	<u>C. caretta</u>	PPW339/PPW340	51.8	52.7	57.9	53.4	44.8	39.8	42
050289	<u>C. caretta</u> ¹	AAJ715/PPW341	90.4	92.0	98.0	87.5	71.3	70.6	205
051089	<u>C. caretta</u> ¹	AAJ716/PPW342	95.0	96.4	100.2	90.7	69.9	72.6	309
051089	<u>C. caretta</u> ¹	AAJ717/PPW343	91.2	93.1	99.4	88.4	71.3	69.3	251
051189	<u>C. caretta</u>	AAJ718/PPW344	67.4	68.4	72.8	68.6	53.7	51.3	98
051189	<u>C. caretta</u> ¹	AAJ719/PPW345	98.8	99.8	104.7	91.3	75.9	76.5	285

MARINE TURTLE REMOVALS
 ST. LUCIE PLANT INTAKE CANAL
 APRIL - JUNE 1989

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals (cont'd)									
052289	<u>C. caretta</u> ⁵	AAJ707/PPW332	56.4	57.4	61.7	57.1	46.8	42.7	58
052289	<u>C. caretta</u>	AAJ720/PPW346	57.6	58.8	63.6	59.0	50.4	45.8	65
052389	<u>C. caretta</u> ¹	AAJ721/PPW347	89.3	91.4	99.0	88.0	70.0	69.2	218
052489	<u>C. caretta</u> ¹	AAJ722/PPW348	91.2	91.6	96.3	89.0	70.9	71.8	255
053089	<u>C. caretta</u>	AAJ723/PPW349	63.2	64.7	67.6	65.2	54.4	50.5	88
053189	<u>C. mydas</u> ²	AAJ724/PPW350	93.9	93.9	97.0	85.2	73.8	74.0	219
053189	<u>C. caretta</u>	PPW351/PPW352	48.8	50.2	54.4	52.8	43.4	37.0	41
053189	<u>C. caretta</u> ¹	AAJ725/PPW353	89.1	90.1	95.0	90.6	71.2	68.6	220
060189	<u>C. caretta</u> ²	AAJ726/PPW354	95.3	97.4	102.2	94.3	76.5	71.3	253
060589	<u>C. caretta</u>	AAJ727/PPW355	67.4	69.0	73.4	71.6	58.5	52.1	103
060689	<u>C. caretta</u> ¹	AAJ728/PPW356	94.6	95.2	101.2	94.5	71.9	71.5	230
060689	<u>C. caretta</u>	AAJ729/PPW357	83.0	84.9	91.3	84.1	64.5	62.0	171
060689	<u>C. caretta</u>	AAJ730/PPW359	83.7	84.3	91.0	79.5	64.3	66.9	168
061689	<u>C. caretta</u> ¹	AAJ731/PPW360	89.5	91.7	97.6	89.2	66.7	69.7	232
061689	<u>C. caretta</u>	AAJ733/PPW361	48.2	49.1	54.2	51.2	41.7	39.1	42
061989	<u>C. mydas</u>	PPW365/PPW366	31.9	32.3	33.2	28.3	27.0	26.0	9.2
061989	<u>C. caretta</u> ¹	AAJ734/PPW362	86.7	87.5	92.6	84.2	67.0	67.5	195
062089	<u>C. caretta</u> ⁶	PPW367	95.0	96.3	100.1	86.4	71.8	68.7	243
062289	<u>C. caretta</u> ⁷	PPD624/PPD674 PPW368	67.7	68.8	73.0	66.7	55.5	51.6	103
062389	<u>C. caretta</u> ⁸	PPW369/PPW370	104.9	106.4	112.1	101.5	78.1	79.5	354
062389	<u>C. caretta</u>	AAJ735/PPW371	63.4	65.1	70.7	65.5	55.3	50.2	89

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 APRIL - JUNE 1989

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Live Removals (cont'd)									
062789	<u>C. caretta</u> ¹	AAJ736/PPW372	86.7	87.1	92.2	85.3	65.1	69.0	200
062889	<u>C. caretta</u> ¹	AAJ737/PPW373	85.3	86.9	90.5	83.2	69.6	67.2	193
062989	<u>C. caretta</u> ⁹	AAJ662/PPW260	49.6	50.2	54.0	51.3	42.0	38.1	32
063089	<u>C. caretta</u> ¹	AAJ738/PPW374	87.7	88.5	94.0	86.3	66.0	70.7	219

¹Female.

²Male.

³Due to injury to left front flipper, tag applied to right front flipper only.

⁴Due to injury to right front flipper, tag applied to left front flipper only.

⁵ABI tag return. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 17 APR 89.

⁶Female. Left front flipper missing, therefore, tag applied to right front flipper only.

⁷ABI tag return. This turtle was removed from the intake canal on 22FEB84, 16MAR84, 24MAY85, 18JUL85, 11AUG86, 3NOV86, 26AUG87, and 19APR88. It was released 1.0 km south of the intake on 19APR88. Tag PPW368 was applied on 22JUN89; the two old tags (PPD624 and PPD674) were left on the turtle.

⁸Female. This turtle was released 2.5 km south of the intake on the morning of 23JUN89. It was observed nesting 1.0 km south of the intake on the evening of 24JUN89.

⁹ABI tag return. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 14SEP88.

NM = Not Measured

NOTE: Tags AAJ732, PPW358, PPW363, and PPW364 malfunctioned and were not applied to turtles.

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

