

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8711060102 DOC. DATE: 87/09/30 <sup>11/102</sup> NOTARIZED: NO DOCKET #  
 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  
 MARTIN, R. E. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION

MARTIN, R. E. Florida, State of

SUBJECT: Quarterly turtle activities rept for Jul-Sept 1987. W/NRC  
 871107 & State of FL 871006 ltrs.

DISTRIBUTION CODE: IE25D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7  
 TITLE: Environmental Monitoring Rept (per Tech Specs)

NOTES:

	RECIPIENT		COPIES			RECIPIENT		COPIES	
	ID CODE/NAME		LTR	ENCL		ID CODE/NAME		LTR	ENCL
	PD2-2 LA		1	0		PD2-2 PD		1	1
	TOURIGNY, E		5	5					
INTERNAL:	AEOD/DOA		1	1		AEOD/DSP/TPAB		1	1
	ARM TECH ADV		1	1		NRR/DEST/ADE		1	1
	NRR/DREP/RPB		4	4		<u>REG FILE</u> 01		1	1
	RES DEPY GI		1	1		RGN2 FILE 02		1	1
	RGN2/DRSS/EPRPB		1	1					
EXTERNAL:	LPDR		1	1		NRC PDR		1	1

1954

1954

1954

1954



NOVEMBER 02 1987

L-87-445

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, 50-389  
Environmental Protection Plan Report

Attached for your information is the quarterly sea turtle activities report for the third quarter 1987.

Very truly yours,

C. O. Woody  
Group Vice President  
Nuclear Energy

COW/GRM/gp

Attachment

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

8711060102 871102  
PDR ADOCK 05000335  
R PDR

JE25  
11



10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100

101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200

201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300



#56  
R. Erik Martin  
Applied Biology, Inc.  
P.O. Box 974  
Jensen Beach, FL 34958

RECEIVED  
OCT 7 1987  
Env'l. Affairs

October 6, 1987

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:

Forty loggerhead turtles, three green turtles and one hawksbill turtle were removed from the St. Lucie Plant intake canal during the July-September quarter of 1987. Two loggerheads were dead when recovered.

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

RM/pj  
Attachment

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

## MARINE TURTLE REMOVALS

JULY 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								
7/2	<u>C. caretta</u>	AAJ497 PPN301	51.3	55.2	51.9	40.7	91	45
7/2	<u>C. caretta</u> <sup>1</sup>	AAJ498 PPN302	84.7	92.1	84.6	65.1	176	191
7/6	<u>C. caretta</u> <sup>1</sup>	AAJ499 PPN303	90.1	98.7	92.4	70.7	190	226
7/7	<u>C. caretta</u> <sup>1</sup>	AAJ500 PPN304	87.2	95.6	87.3	65.6	170	200
7/8	<u>C. caretta</u>	AAJ525 PPN305	66.9	72.5	67.5	51.4	158	98
7/8	<u>C. caretta</u> <sup>1</sup>	AAJ501 PPN306	88.8	93.9	87.3	66.3	215	211
7/9	<u>C. caretta</u>	AAJ502 PPN307	60.4	66.0	62.9	47.3	155	78
7/9	<u>C. caretta</u> <sup>2</sup>	AAJ503 PPN308	95.5	102.0	98.8	73.3	500	270
7/9	<u>C. mydas</u>	NNC632 PPN309	28.0	29.8	26.0	24.2	50	6
7/11	<u>C. caretta</u> <sup>1</sup>	AAJ524 PPN310	92.9	102.1	93.5	72.8	229	269
7/12	<u>C. caretta</u> <sup>1</sup>	AAJ504 PPN311	85.2	96.0	85.5	63.5	175	190
7/16	<u>C. caretta</u> <sup>1</sup>	AAJ505 PPN314	90.1	98.3	93.0	69.3	190	230
7/16	<u>E. imbricata</u>	PPN312 PPN313	39.9	44.5	41.0	32.9	80	22
7/17	<u>C. caretta</u> <sup>1</sup>	AAJ506 PPN315	89.5	95.1	89.1	69.4	181	202
7/21	<u>C. caretta</u>	AAJ507 PPN316	64.7	69.9	67.2	50.9	129	90

## MARINE TURTLE REMOVALS

JULY 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								
7/21	<u>C. caretta</u> <sup>1</sup>	AAJ508 PPN317	95.9	104.8	96.0	74.9	191	260
7/24	<u>C. caretta</u>	AAJ509 PPN318	53.7	60.1	55.3	42.6	109	51
7/28	<u>C. caretta</u>	AAJ510 PPN319	68.8	75.8	71.0	52.8	180	110
7/28	<u>C. caretta</u>	AAJ511 PPN320	70.8	76.6	70.3	54.7	117	108
7/29	<u>C. caretta</u> <sup>1</sup>	AAJ512 PPN321	92.1	100.2	91.0	68.2	235	234
Dead Removals								
7/9	<u>C. caretta</u>	not tagged	52.4	57.0	56.4	41.5	NM	NM

<sup>1</sup>Female.<sup>2</sup>Male.

NM = not measured

## MARINE TURTLE REMOVALS

AUGUST 1987

DATE CAPTURED	SPECIES	TAG NUMBER	CARAPACE LENGTH		CARAPACE WIDTH (cm)	PLASTRON LENGTH (cm)	TOTAL TAIL LENGTH (mm)	WEIGHT (lbs)
			(mid-line) (cm)	(curved) (cm)				
ST. LUCIE PLANT INTAKE CANAL								
Live Removals								
8/3	<u>C. caretta</u> <sup>1</sup>	AAJ513 PPN322	87.0	95.6	86.4	69.7	-	189
8/4	<u>C. caretta</u> <sup>2</sup>	AAJ514 PPN323	81.0	88.2	78.0	64.1	172	170
8/5	<u>C. caretta</u>	AAJ515 PPN324	69.1	76.5	72.8	54.0	135	121
8/5	<u>C. caretta</u>	AAJ516 PPN325	60.9	66.4	64.2	44.7	147	71
8/6	<u>C. caretta</u>	AAJ517 PPN326	69.4	76.5	74.7	55.9	105	107
8/11	<u>C. caretta</u>	AAJ518 PPN327	47.5	52.8	48.0	37.8	86	35
8/11	<u>C. caretta</u>	AAJ519 PPN328	66.6	71.4	69.3	52.6	138	98
8/12	<u>C. caretta</u> <sup>2</sup>	AAJ520 PPN329	92.6	99.3	91.2	74.2	222	259
8/12	<u>C. caretta</u>	AAJ521 PPN330	62.9	69.9	67.1	49.6	142	84
8/12	<u>C. caretta</u> <sup>2</sup>	AAJ522 PPN331	90.0	97.0	88.0	67.8	223	208
8/17	<u>C. caretta</u>	AAJ523 PPN332	67.8	76.1	72.2	51.7	118	102
8/18	<u>C. caretta</u>	PPN333 PPN334	67.0	75.5	72.5	51.3	130	94
8/21	<u>C. caretta</u>	AAJ526 PPN335	55.3	60.9	59.3	43.1	135	64
8/25	<u>C. mydas</u> <sup>2</sup>	AAJ527 PPN336	96.1	102.0	88.1	76.8	270	241
8/26	<u>C. caretta</u> <sup>3</sup>	PPD624 PPD674	67.2	73.4	66.4	51.2	146	104
8/27	<u>C. caretta</u>	AAJ528 PPN337	61.7	68.2	65.2	46.7	127	70



## MARINE TURTLE REMOVALS

AUGUST 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								
8/28	<u>C. caretta</u>	AAJ550 PPN338	56.1	60.9	60.3	43.6	92	59
Dead Removals								
8/12	<u>C. caretta</u>	not tagged	57.8	62.3	63.0	47.6	NM	58

<sup>1</sup>Tail missing (old scar, healed). Could not determine sex.

<sup>2</sup>Female.

<sup>3</sup>ABI tag return. This turtle was removed from the intake canal, tagged (AAH-565) and released 6.5 miles north of the intake on 22FEB84. The turtle was recaptured in the intake canal and released 7.0 miles south of the intake on 16MAR84. It was recaptured in the intake canal on 24MAY85; AAH-565 was removed and replaced with AAH-986 and AAH-987; and, the turtle was released 3.0 miles south of the intake. It was recaptured on 18JUL85 and released 7.0 miles south of the intake. Upon recapture on 11AUG86, AAH-986 (which was missing) was replaced with PPD-624, and the turtle was released 3.0 miles south of the intake. It was recaptured in the intake canal on 3NOV86; PPD-624 was applied and the turtle was released 3.0 miles south of the intake. Upon recapture on 26AUG87, AAH-987 was missing.

## MARINE TURTLE REMOVALS

SEPTEMBER 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								
9-1	<u>C. caretta</u>	AAJ529 PPN339	62.1	70.0	66.7	46.7	125	85
9-10	<u>C. mydas</u>	PPN340 PPN341	29.3	30.7	26.0	24.7	50	7.3
9-11	<u>C. caretta</u>	AAJ530 PPN342	55.0	58.5	57.3	44.2	134	56
9-16	<u>C. caretta</u>	AAJ531 PPN343	58.0	62.3	59.2	45.3	140	57
9-22	<u>C. caretta</u>	AAJ532 PPN344	65.5	73.6	68.8	50.4	129	85