

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8707270280 DOC. DATE: 87/07/24 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
 WOODY, C. D. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Forwards quarterly sea turtle activities rept for second quarter 1987.

DISTRIBUTION CODE: CO01D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 11
 TITLE: Licensing Submittal: Environmental Rept Amdt & Related Correspondence

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	PD2-2 LA	1 1	PD2-2 PD	1 1
	TOURIGNY, E	1 1		
INTERNAL:	AEOD/DOA	1 1	AEOD/DSP/TPAB	1 1
	ARM/DAF/LFMB	1 0	NRR/DEST/ADE	1 1
	NRR/DEST/ESGB	1 1	NRR/DREP/RPB	1 1
	OGC/HDS2	1 0	<u>REG FILE</u> 01	1 1
EXTERNAL:	LPDR	1 1	NRC PDR	1 1
	NSIC	1 1		

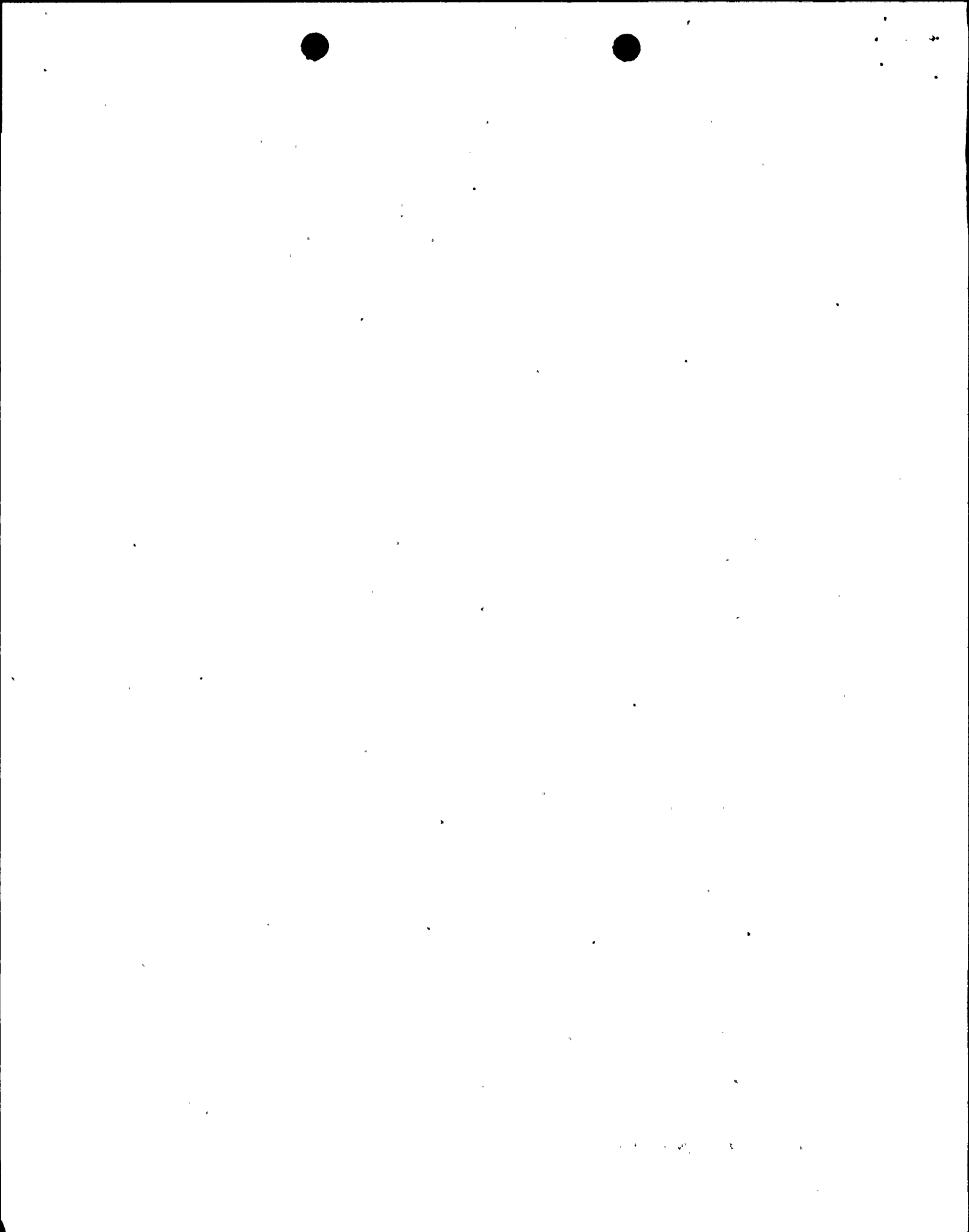
MARINE TURTLE REMOVALS

APRIL 1987

DATE CAPTURED	SPECIES	TAG NUMBER	CARAPACE LENGTH (mid-line) (cm)	CARAPACE LENGTH (curved) (cm)	CARAPACE WIDTH (cm)	PLASTRON LENGTH (cm)	TOTAL TAIL LENGTH (mm)	WEIGHT (lbs)
ST. LUCIE PLANT INTAKE CANAL Live Removals								
4/1	<u>C. caretta</u>	AAJ-404 PPD-747	55.3	61.9	59.4	44.7	111	56
4/2	<u>C. caretta</u>	AAJ-405 PPD-750	75.2	81.1	73.1	57.5	158	111
4/2	<u>L. kemp</u> ¹	PPD-748 PPD-749	31.7	34.6	34.9	25.1	60	8
4/3	<u>L. kemp</u>	PPD-752 PPD-753	31.7	35.0	36.4	25.7	55	10
4/3	<u>C. caretta</u>	PPD-751 AAJ-407	54.2	61.0	59.1	43.4	105	56
4/3	<u>C. caretta</u>	AAJ-424 PPD-754	51.5	59.8	58.3	40.1	105	55
4/3	<u>C. caretta</u>	AAJ-406 NNC-614	56.0	64.0	60.9	44.1	126	62
4/6	<u>C. caretta</u>	AAJ-408 PPD-755	56.7	63.6	61.1	45.6	107	68
4/7	<u>C. caretta</u>	AAJ-409 PPD-756	59.0	65.0	62.5	47.6	135	75
4/8	<u>C. caretta</u>	AAJ-410 PPD-757	49.4	54.8	52.6	40.7	108	45
4/8	<u>C. caretta</u>	AAJ-411 PPD-758	61.5	69.0	63.0	46.3	133	70
4/9	<u>C. caretta</u>	AAJ-412 PPD-759	50.0	57.0	57.1	41.3	85	52
4/9	<u>C. caretta</u>	AAJ-413 PPD-760	47.4	53.4	50.4	37.9	90	43
4/9	<u>C. caretta</u>	AAJ-414 PPD-761	57.4	63.1	58.8	43.7	120	61
4/14	<u>C. caretta</u>	AAJ-415 PPD-762	76.4	83.8	79.9	61.3	167	147
4/16	<u>C. caretta</u> ²	AAJ-416 PPD-763	78.0	87.8	77.3	57.5	170	143

B707270280 B70630
PDR ADCK 05000335
R PDR

COOL
1/1



MARINE TURTLE REMOVALS

APRIL 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								
4/16	<u>C. caretta</u>	AAJ-417 PPD-764	69.0	75.0	69.8	54.1	158	110
4/18	<u>C. caretta</u>	NNC-613 PPD-765	40.4	46.0	45.1	33.1	75	26
4/19	<u>C. caretta</u>	AAJ-418 PPD-766	55.8	62.8	59.0	45.2	124	59
4/21	<u>C. caretta</u>	AAJ-419 PPD-767	55.9	63.8	62.5	44.9	130	64
4/24	<u>C. caretta</u>	AAJ-420 AAJ-421	55.8	61.5	58.5	45.6	112	64
4/28	<u>C. caretta</u>	AAJ-422 PPD-771	62.9	71.1	66.0	49.2	139	85
4/28	<u>C. mydas</u>	NNC-615 PPD-772	35.1	39.4	37.0	29.5	65	16
4/28	<u>C. mydas</u>	NNC-616 PPD-773	36.3	38.7	35.9	30.3	59	14
4/29	<u>C. mydas</u>	NNC-617 PPD-774	26.9	28.8	25.4	21.8	45	8
4/30	<u>C. caretta</u>	AAJ-426 PPD-775	46.7	53.3	51.4	36.8	104	38
4/30	<u>L. kemp</u> ³	PPD-776 PPD-777	31.0	33.3	33.7	24.3	54	9
Dead Removals								
4/3	<u>L. kemp</u> ⁴	not tagged	27.9	30.9	31.5	22.1	60	7
4/8	<u>C. caretta</u>	not tagged	NM	75.0	72.0	NM	NM	85(E)
4/17	<u>C. caretta</u> ⁵	not tagged	NM	NM	63.0	NM	NM	50(E)
4/17	<u>C. caretta</u>	not tagged	60.0	67.0	64.0	46.9	110	70

MARINE TURTLE REMOVALS

APRIL 1987

¹Additional straight-line measurements: standard carapace length=32.4 cm, maximum carapace length=32.7 cm, maximum carapace width=29.3 cm, maximum head width=70.5 mm.

²Female?

³Additional straight-line measurements: standard carapace length=31.3 cm, maximum carapace length=31.6 cm, maximum carapace width=28.9 cm, maximum head width=72 mm.

⁴Necropsy report attached.

⁵Posterior portion of carapace missing.

NOTE: PPD768, PPD769 and PPD770 malfunctioned and were not applied to turtles.

NM = not measured E = estimated

NECROPSY REPORT

Kemp's Ridley removed from the St. Lucie Plant 4/3/87 (27.9 cm SLCL)

Necropsy performed by Dr. Thomas C. Finch, V.M.D.

Noted superficial wounds at base of beak on ventrum and at base of left front flipper. Wounds not protruding into body cavity.

Hemorrhagial fluid dripping from nostrils and mouth.

Tissues saved (one set in 10% formalin, another frozen) - entire carcass frozen.

- 1) Large amount of fluid^e in internal cavity - probably post-mortem.
- 2) Liver looks good but a little friable (probably post-mortem change)
- 3) Lungs appear collapsed but otherwise healthy.
- 4) No parasites found in any portion of digestive tract.
- 5) No obstructions in digestive tract.
- 6) Thick white mucous along wall of stomach. Origin unknown.
- 7) A few small hemorrhages in lining of duodenum.
- 8) Considerable shell fragments in large bowel.

General findings: No obstructions in digestive tract, no inflammation of tissues or other internal abnormalities which could be explained as being caused by anything other than autolysis. Cause of death undetermined.

MARINE TURTLE REMOVALS

Page 1 of 2

MAY 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								
5/5	<u>C. caretta</u>	AAJ-423 PPD-778	64.6	71.7	68.9	51.2	130	92
5/5	<u>C. caretta</u>	AAJ-427 PPD-779	55.8	62.2	61.5	44.6	105	66
5/6	<u>C. mydas</u>	NNC-618 PPD-780	29.5	31.4	26.6	24.8	65	7
5/7	<u>C. caretta</u>	AAJ-428 PPD-781	58.9	64.8	61.0	47.5	119	68
5/9	<u>C. caretta</u>	AAJ-429 PPD-782	44.7	49.5	47.5	37.1	102	34
5/9	<u>C. caretta</u>	AAJ-430 PPD-783	59.9	66.2	61.8	46.5	132	82
5/11	<u>C. mydas</u>	NNC-619 PPD-784	24.3	26.7	21.9	20.2	44	4.3
5/13	<u>C. caretta</u>	AAJ-431 PPD-785	62.2	68.0	64.2	47.5	150	82
5/14	<u>C. caretta</u>	AAJ-432 PPD-786	54.3	62.0	57.8	43.2	121	62
5/14	<u>C. caretta</u>	AAJ-433 PPD-787	70.4	79.0	75.2	55.3	145	115
5/15	<u>C. caretta</u>	AAJ-434 PPD-788	57.2	63.1	62.7	46.6	115	68
5/19	<u>C. caretta</u> ¹	PPD-789	90.6	99.6	92.3	68.3	211	242
5/19	<u>C. caretta</u> ²	AAJ-299 NNY-893	51.2	55.5	54.2	41.0	98	47
5/20	<u>C. caretta</u> ³	AAJ-435 PPD-790	95.1	103.0	95.0	74.2	223	288
5/20	<u>C. caretta</u> ³	AAJ-436 PPD-791	89.5	98.5	91.5	70.0	180	258
5/21	<u>C. caretta</u> ³	AAJ-437 PPD-792	97.6	107.8	93.2	74.5	235	323

MARINE TURTLE REMOVALS

MAY 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								
5/22	<u>C. caretta</u>	AAJ-438 PPD-794	72.9	79.6	78.8	56.7	156	122
5/22	<u>C. caretta</u>	AAJ-439 PPD-793	62.2	67.8	64.2	48.3	165	82
5/26	<u>C. caretta</u>	AAJ-440 PPD-795	49.3	52.8	52.7	39.3	82	43
5/27	<u>C. caretta</u>	AAJ-441 PPD-796	54.6	60.1	58.3	42.2	141	59
5/28	<u>C. caretta</u>	AAJ-442 PPD-797	62.2	67.3	66.1	48.6	159	83
5/29	<u>C. caretta</u>	AAJ-443 PPD-798	44.3	49.2	46.5	35.5	72	31
5/30	<u>C. caretta</u>	AAJ-444 PPD-799	60.5	65.2	63.0	46.7	130	76
5/31	<u>C. caretta</u>	AAJ-445 PPD-800	57.6	62.8	60.2	44.9	145	64
Dead Removals								
5/6	<u>C. caretta</u>	not tagged	64.5	71.8	68.0	50.3	NM	NM

¹Female. Due to injury to right front flipper, tag applied to left front flipper only.

²ABI tag return. This turtle was removed from the intake canal, tagged and released 3.0 miles south of the intake on 15JUL86.

³Female.

NM=not measured.

MARINE TURTLE REMOVALS

JUNE 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								
6/2	<u>C. mydas</u>	NNC-620 NNC-621	30.5	32.5	28.3	25.5	45	8
6/3	<u>C. caretta</u>	AAJ-448 AAJ-449	54.8	60.6	58.2	43.6	123	62
6/3	<u>C. mydas</u>	AAJ-450 AAJ-451	51.3	54.8	47.1	41.3	83	35
6/3	<u>C. caretta</u>	AAJ-452 AAJ-453	59.8	64.6	63.9	46.0	141	75
6/4	<u>C. caretta</u>	AAJ-454 AAJ-455	63.8	70.0	67.1	51.2	131	88
6/4	<u>C. caretta</u> ¹	AAJ-456 AAJ-457	92.0	101.2	91.7	72.3	215	249
6/5	<u>C. caretta</u>	NNC-622 NNC-623	59.3	65.0	61.6	45.7	147	73
6/5	<u>C. caretta</u> ¹	AAJ-458 NNC-624	84.7	91.7	83.0	62.3	173	180
6/8	<u>C. caretta</u> ¹	AAJ-459 AAJ-460	88.6	96.7	93.0	70.0	220	282
6/8	<u>C. caretta</u> ¹	AAJ-461 AAJ-462	87.3	94.6	93.6	72.3	195	231
6/9	<u>C. caretta</u> ¹	AAJ-463 AAJ-464	89.9	96.5	87.3	67.9	236	231
6/10	<u>C. caretta</u> ¹	AAJ-465 AAJ-466	85.3	92.2	83.8	63.5	196	181
6/10	<u>C. caretta</u> ²	AAJ-168 AAJ-467 AAJ-468	56.0	59.3	57.3	42.5	107	52
6/10	<u>C. caretta</u> ³	AAJ-469 AAJ-470	88.3	95.4	83.1	66.1	439	195
6/12	<u>C. caretta</u> ¹	AAJ-471 AAJ-472	88.2	98.6	89.6	68.2	182	239

MARINE TURTLE REMOVALS

JUNE 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								
6/13	<u>C. caretta</u>	AAJ-473 AAJ-474	61.7	68.6	65.0	46.4	118	78
6/16	<u>C. caretta</u>	AAJ-475 AAJ-476	58.2	63.3	63.0	46.5	136	68
6/16	<u>C. caretta</u>	AAJ-477 AAJ-478	52.3	56.7	54.4	40.3	106	48
6/16	<u>C. caretta</u>	AAJ-479 AAJ-480	68.2	74.6	71.2	53.2	146	101
6/17	<u>C. caretta</u> ¹	AAJ-481 AAJ-482	96.1	104.1	98.6	74.5	277	316
6/19	<u>C. caretta</u>	AAJ-483 AAJ-484	58.0	62.5	60.0	46.0	123	57
6/23	<u>C. caretta</u>	AAJ-485 AAJ-486	60.9	65.7	66.2	47.0	128	75
6/23	<u>C. mydas</u>	NNC-625 NNC-628	37.6	39.5	34.9	28.8	56	16
6/23	<u>E. imbricata</u>	NNC-629 NNC-630	41.4	45.5	40.6	33.4	92	22
6/23	<u>C. caretta</u>	AAJ-487 AAJ-488	59.2	64.0	64.6	48.5	136	70
6/24	<u>C. caretta</u>	AAJ-489 AAJ-490	57.5	62.6	60.4	44.9	148	65
6/25	<u>C. caretta</u> ¹	AAJ-491 AAJ-492	92.2	99.5	91.2	71.2	226	223
6/25	<u>C. caretta</u> ⁴	AAJ-493 AAJ-494	60.9	67.2	61.0	47.7	143	69
6/28	<u>C. caretta</u> ¹	AAJ-495 AAJ-496	84.7	93.1	85.2	65.2	211	210
Dead Removals								
6/10	<u>L. kemp</u>	not tagged	28.0	30.3	31.4	22.8	53	7



2
2
0

MARINE TURTLE REMOVALS

JUNE 1987

DATE CAPTURED	SPECIES	TAG NUMBER	CARAPACE LENGTH		CARAPACE WIDTH	PLASTRON LENGTH	TOTAL TAIL LENGTH	WEIGHT
			(mid-line) (cm)	(curved) (cm)				
ST. LUCIE PLANT INTAKE CANAL								
Dead Removals								
6/23	<u>C. caretta</u>	not tagged	47.5	51.6	51.4	35.7	NM	NM

¹Female.

²ABI tag return. This turtle was removed from the intake canal, tagged (AAJ167/AAJ168) and released 3.0 miles south of the intake on 12NOV85. Upon recapture on 10JUN87, AAJ167 had fallen off and AAJ168 was removed and replaced with AAJ467 and AAJ468.

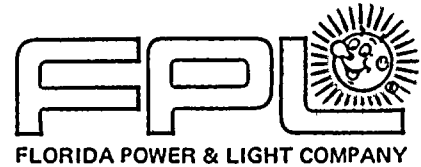
³Male.

⁴Anterior portion of mandible missing apparently due to injury. Examined by Thomas C. Finch, V.M.D. Transferred to tank at House of Refuge for treatment. Released on 3JUL87.

NOTE: AAJ446 and AAJ447 malfunctioned and were not applied to turtles.

NM = not measured





JULY 24 1987
L-87-310

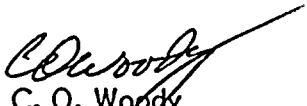
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

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 second quarter 1987.

Very truly yours,

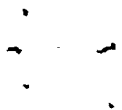

C. O. Woody
Group Vice President
Nuclear Energy

COW/GRM/gp

Attachment

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

COO
|||



100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100



RECEIVED
JUL 10 1987
Env'l. Affairs

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

July 8, 1987

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

Dear Alan:

Seventy-three Caretta caretta, eight Chelonia mydas, five Lepidochelys kempi, and one Eretmochelys imbricata were removed from the St. Lucie Plant intake canal during the April - June quarter of 1987. Five C. caretta and two L. kempi were dead when recovered.

Measurements for all animals are attached. All 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

Attachment.

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