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       50-389 St. Lucie Plant, Unit 2; Florida Power & Light Co.      05000389  
 AUTH. NAME                      AUTHOR AFFILIATION  
 MARTIN, R.E.                      Applied Biology, Inc.  
 RECIP. NAME                      RECIPIENT AFFILIATION

SUBJECT: Quarterly rept of marine turtle removals for Jan-Mar 1988.  
 W/880408 ltr.

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TOTAL NUMBER OF COPIES REQUIRED: LTTR 23 ENCL 22

## MARINE TURTLE REMOVALS

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JANUARY 1988

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBERS</u>	<u>SMCL (cm)</u>	<u>SSCL (cm)</u>	<u>CSCL (cm)</u>	<u>CMCW (cm)</u>	<u>SMPL (cm)</u>	<u>STTL (mm)</u>	<u>WEIGHT (lbs)</u>
ST. LUCIE PLANT INTAKE CANAL									
Live Removals									
1/1	<u>L. kemp</u> <sup>1</sup>	PPN388/PPN389	34.7	35.3	37.2	37.0	27.2	75	11.6
1/6	<u>C. caretta</u>	AAJ554/PPN390	54.3	55.3	58.8	58.5	44.3	128	65
1/8	<u>C. mydas</u>	NNC637/PPN391	24.5	24.7	26.7	22.5	20.5	37	4.0
1/13	<u>C. caretta</u>	AAJ555/PPN392	53.3	54.0	59.6	55.9	43.3	105	54
1/15	<u>C. caretta</u>	AAJ556/PPN393	66.3	68.3	72.3	66.6	53.1	137	93
1/17	<u>C. mydas</u>	NNC638/PPN395	27.2	27.7	28.7	24.3	21.7	50	5.7
1/17	<u>C. mydas</u> <sup>2</sup>	PPN396/PPN397	31.0	31.5	33.7	28.0	26.8	51	8.9
1/17	? <u>C. mydas</u> <sup>3</sup>	not tagged	-	-	-	-	-	-	5-10
1/17	? <u>C. mydas</u> <sup>3</sup>	not tagged	-	-	-	-	-	-	5-10
1/17	? <u>C. mydas</u> <sup>3</sup>	not tagged	-	-	-	-	-	-	5-10
1/18	<u>C. mydas</u>	NNC639/PPN398	24.1	24.5	25.3	22.3	20.3	47	4.4
1/20	<u>C. caretta</u>	AAJ557/PPN399	63.7	65.3	68.7	62.8	51.1	124	81
1/22	<u>C. mydas</u>	PPN400/PPN402	28.9	29.6	31.1	25.9	24.2	60	6.9
1/22	<u>C. caretta</u>	AAJ558/PPN403	69.6	71.4	75.9	71.0	54.1	170	108
1/26	<u>C. mydas</u>	PPN404/PPN405	39.2	39.6	41.7	34.4	31.5	65	15.4
1/26	<u>C. caretta</u>	AAJ559/PPN406	56.9	57.7	61.5	59.5	44.0	138.	62
1/26	<u>C. mydas</u>	PPN407/PPN408	27.4	27.7	28.8	26.1	22.7	45	5.5
1/28	<u>C. caretta</u>	AAJ560/PPN409	65.8	66.9	72.7	68.5	49.1	170	100
1/29	<u>C. mydas</u>	PPN410/PPN411	25.7	26.2	27.3	24.0	21.3	50	4.6
1/30	<u>C. mydas</u>	NNC640/PPN414	29.6	30.1	31.2	27.5	24.9	55	7.4

<sup>1</sup>Additional straight-line measurements: maximum carapace width = 32.5 cm, maximum head width = 78.4 mm.

<sup>2</sup>Initially somewhat lethargic.- held overnight - released on 1/18/88

<sup>3</sup>These three turtles were not examined by Applied Biology staff.

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JANUARY 1988

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NOTE: PPN394 and PPN401 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

SMPL = straight midline plastron length

STTL = straight total tail length

## MARINE TURTLE REMOVALS

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FEBRUARY 1988

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBERS</u>	<u>SMCL (cm)</u>	<u>SSCL (cm)</u>	<u>CSCL (cm)</u>	<u>CMCW (cm)</u>	<u>SMPL (cm)</u>	<u>STTL (mm)</u>	<u>WEIGHT (lbs)</u>
ST. LUCIE PLANT INTAKE CANAL									
Live Removals									
2/1	<u>C. caretta</u> <sup>1</sup>	PPN415	57.3	57.5	60.2	61.5	47.2	130	66.0
2/2	<u>C. caretta</u>	PPN416/AAJ561	42.8	43.8	47.1	45.0	35.5	84	30.0
2/3	<u>C. mydas</u>	PPN417/PPN418	29.3	29.7	31.4	28.3	24.4	56	7.6
2/5	<u>C. caretta</u>	PPN419/AAJ562	57.7	58.9	62.9	61.2	45.3	140	76.0
2/8	<u>C. mydas</u>	PPN420/PPN421	28.2	28.5	29.6	26.3	23.5	45	6.7
2/9	<u>C. mydas</u>	PPN422/PPN423	27.4	27.8	28.8	26.8	22.8	51	5.6
2/9	<u>C. mydas</u>	PPN424/PPN425	28.5	28.9	30.2	25.8	24.1	50	6.0
2/10	<u>L. kempfi</u>	PPN427/PPN428	32.9	33.5	35.6	35.0	26.7	68	11.4
2/10	<u>C. mydas</u>	PPN429/NNC641	25.5	25.8	27.4	24.8	20.7	43	4.6
2/11	<u>C. mydas</u>	PPN430/PPN431	26.9	27.2	28.5	24.3	23.0	43	5.4
2/11	<u>C. mydas</u>	PPN432/PPN433	26.3	26.8	28.0	25.8	21.6	46	5.5
2/11	<u>C. mydas</u>	PPN434/PPN435	22.3	22.6	24.3	21.6	18.6	40	3.7
2/12	<u>C. mydas</u>	PPN437/NNC642	26.3	26.5	27.3	23.5	21.5	43	5.2
2/17	<u>C. caretta</u>	AAJ563/PPN438	60.7	61.3	65.1	64.6	48.0	96	75.0
2/22	<u>C. caretta</u>	PPN439/AAJ564	56.0	57.1	63.5	59.8	44.0	110	62.0
2/24	<u>C. caretta</u>	PPN440/AAJ565	83.5	84.6	91.0	85.2	61.8	257	192.0
2/25	<u>C. mydas</u>	PPN441/NNC643	26.0	26.2	27.5	23.5	21.8	40	5.2
2/29	<u>C. mydas</u>	PPN442/NNC644	23.2	23.6	24.7	20.9	18.9	43	3.4
2/29	<u>C. caretta</u>	PPN443/AAJ566	58.3	59.5	63.7	68.2	49.8	137	76.0
Dead Removals									
2/5	<u>L. kempfi</u>	not tagged	38.8	39.3	41.4	41.0	29.0	NM	NM
2/11	<u>C. caretta</u>	not tagged	NM	58.9	65.2	63.5	NM	NM	NM
2/18	<u>C. caretta</u> <sup>2</sup>	not tagged	81.2	82.1	87.0	77.9	NM	NM	NM
2/19	<u>C. caretta</u>	not tagged	74.8	75.9	80.4	75.7	56.1	NM	NM

FEBRUARY 1988

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<sup>1</sup>Only one tag applied due to injury to left front flipper.

<sup>2</sup>Female.

NOTE: PPN426 and PPN436 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

SMPL = straight midline plastron length

STTL = straight total tail length

NM = not measured

## MARINE TURTLE REMOVALS

MARCH 1988

<u>DATE CAPTURED</u>	<u>SPECIES</u>	<u>TAG NUMBERS</u>	<u>SMCL (cm)</u>	<u>SSCL (cm)</u>	<u>CSCL (cm)</u>	<u>CMCW (cm)</u>	<u>SMPL (cm)</u>	<u>STTL (mm)</u>	<u>WEIGHT (lbs)</u>
ST. LUCIE PLANT INTAKE CANAL									
Live Removals									
3/1	<u>C. mydas</u>	PPN444/AAJ567	49.6	50.2	52.5	46.5	41.8	80	35
3/3	<u>C. caretta</u>	PPN445/AAJ568	57.3	58.3	61.5	57.9	43.3	125	54
3/4	<u>C. caretta</u>	AAJ569/PPN446	51.8	52.6	57.7	55.0	41.8	100	52
3/9	<u>C. caretta</u> <sup>1</sup>	PPD785/AAJ431 PPN447	64.1	65.0	72.0	63.8	48.5	142	81
3/10	<u>L. kempfi</u>	PPN451/PPN452	28.7	29.4	31.5	32.5	23.2	56	8.2
3/10	<u>C. caretta</u>	PPN448/AAJ570	70.1	71.1	76.2	73.8	54.0	160	114
3/14	<u>C. caretta</u>	PPN449/AAJ571	62.0	63.2	69.0	66.1	47.5	117	82
3/21	<u>C. caretta</u>	PPN453/AAJ572	52.6	53.9	57.8	56.7	43.7	100	54
3/22	<u>C. caretta</u>	PPN450/AAJ573	64.8	65.7	70.7	66.2	48.7	137	79
3/23	<u>C. caretta</u>	PPN454/AAJ574	56.4	57.3	61.8	58.9	43.7	120	61
3/25	<u>C. mydas</u>	PPN455/NNC645	29.0	29.1	30.3	25.9	24.0	45	6.7
3/28	<u>C. caretta</u>	AAJ575/PPN456	60.0	61.1	66.2	62.9	47.0	106	62
3/28	<u>C. caretta</u>	AAJ576/PPN457	55.9	57.3	61.5	57.2	44.2	136	65
3/29	<u>C. mydas</u>	PPN458/NNC646	26.3	26.5	27.6	25.0	21.8	51	5.3
3/29	<u>C. mydas</u> <sup>2</sup>	PPN459/NNC647	28.6	28.8	32.0	27.4	24.1	NM	7.0
3/31	<u>C. caretta</u>	PPN460/AAJ577	52.6	53.7	57.0	52.7	41.3	138	46

<sup>1</sup>ABI tag return. This turtle was removed from the intake canal, tagged (AAJ431/PPD785) and released 3.0 km south of the intake on 13 May 1987. Tag PPN447 was applied 9 March 1988.

<sup>2</sup>This underweight and lethargic turtle was transferred to the House of Refuge Museum on 30 March 1988.

SMCL = straight minimum carapace length

SSCL = straight standard carapace length

CSCL = curved standard carapace length

CMCW = curved maximum carapace width

SMPL = straight midline plastron length

STTL = straight total tail length

NM = not measured



MAY 11 1988

L-88-211


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 first quarter of 1988, which was submitted to the Florida Department of Natural Resources Marine Research Laboratory on April 8, 1988.

Very truly yours,

  
W. F. Conway  
Senior Vice President - Nuclear

WFC/GRM/gp

Attachment

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

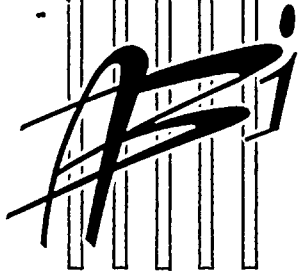
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ENVIRONMENTAL  
H E A L T H  
SPECIALISTS

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

April 8, 1988

Dr. J. Ross Wilcox  
Florida Power & Light Company  
Environmental Affairs  
P.O. Box 14000  
Juno Beach, Florida 33408

Dear Ross:

Enclosed please find the quarterly report of marine turtle removals for the January through March quarter of 1988.

Please feel free to contact me if you require any additional information concerning the enclosed data..

Sincerely,

R. Erik Martin  
Senior Scientist

REM/mnm

Enclosure

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