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 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
 * Florida Power & Light Co.
 SAGER, D.A. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: "Quarterly Turtle Activities Rept for First Quarter 1991."
 W/910501 ltr.

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MAY 01 1991
L-91-131

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

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 1991, which was submitted to the Florida Department of Natural Resources, Florida Marine Research Institute on April 8, 1991.

Should there be any questions on this information, please contact us.

Very truly yours,

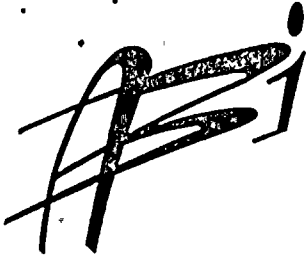
D. A. Sager
Vice President
St. Lucie Plant

DAS:JJB:kw

Attachment

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

DAS/PSL #424



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

ENVIRONMENTAL
H E A L T H
SPECIALISTS

April 8, 1991

RECEIVED

APR - 9 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:

Forty-five loggerhead turtles, seven green turtles, one hawksbill and one Kemp's ridley were removed from the St. Lucie Plant intake canal during the January - March quarter of 1991. Two loggerheads were transferred to Sea World for rehabilitation - one (removed on 8 March) died on 12 March, the other (removed on 5 February) is still undergoing treatment at Sea World. All other turtles were released into the ocean from Hutchinson Island. Measurements for all animals are attached.

Also, Dr. Wilcox has forwarded reports of four live sea turtles being removed from the Port Everglades Plant intake canal by Florida Power & Light personnel. On 11 January a turtle weighing approximately five pounds was removed and released in good condition. A turtle weighing approximately 50 pounds and identified by FPL personnel as a loggerhead was removed and released on 3 February. A third turtle was removed on 10 February - it was in good condition but missing its right front flipper. This turtle was taken to Ocean World where it was identified as a hawksbill. The fourth turtle was removed and released in good condition on 5 March. It was estimated to weight 50 pounds and appeared to be a loggerhead (based on a photograph which Dr. Wilcox forwarded to me).

Mr. J. Alan Huff
8 April 1991

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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
JANUARY - MARCH 1991

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals									
010391	<u>C. caretta</u>	BBC306/PPW557	60.6	61.8	67.5	63.6	50.5	48.0	76
010991	<u>C. caretta</u>	BBC307/PPW558	57.4	59.1	63.7	62.8	50.7	45.7	69
011091	<u>C. caretta</u>	BBC308/PPW559	60.5	61.7	66.3	60.8	51.7	49.0	72
011091	<u>C. caretta</u>	BBC309/PPW560	55.3	56.7	61.6	56.4	48.3	46.4	63
011491	<u>C. caretta</u>	BBC310/PPW561	55.4	56.4	60.2	55.0	45.7	43.0	56
011491	<u>C. caretta</u>	BBC311/PPW562	66.4	68.0	71.7	65.7	56.4	50.4	96
011791	<u>C. caretta</u>	BBC312/PPW563	59.8	61.0	64.4	58.8	46.5	45.9	64
012191	<u>C. caretta</u>	BBC313/PPW564	59.0	59.5	64.3	63.0	48.3	45.7	66
012391	<u>C. mydas</u>	BBC314	28.3	28.7	30.5	26.3	23.6	23.6	6.6
012591	<u>C. caretta</u>	BBC320/PPW566	56.4	58.0	62.0	59.6	51.0	45.4	66
012991	<u>C. caretta</u> ¹	BBC319/PPW567	92.6	95.3	100.5	88.2	66.8	64.0	208
012991	<u>C. caretta</u> ²	AAJ879/PPW546	54.9	55.7	60.7	59.7	49.2	43.4	56
012991	<u>C. caretta</u>	BBC315/PPW568	64.8	65.6	70.6	68.9	57.4	51.6	99
012991	<u>C. caretta</u>	BBC316/PPW569	55.6	56.6	61.8	56.1	47.2	44.4	60
020591	<u>C. caretta</u> ³	BBC317/PPW570	51.5	52.4	57.0	54.0	41.7	38.5	38
021191	<u>C. mydas</u>	PPW571/PPW572	28.8	29.0	30.6	26.9	23.8	24.4	8.4
021291	<u>C. caretta</u>	BBC318/PPW573	50.5	51.6	55.7	51.5	43.7	40.5	46
021391	<u>C. caretta</u>	BBC321/PPW574	61.6	63.1	67.7	65.1	50.8	48.2	75
021591	<u>C. mydas</u>	BBC322/PPW575	30.4	30.8	32.5	29.4	25.9	25.2	8.8
021991	<u>C. caretta</u>	BBC323/PPW576	61.3	62.4	68.8	53.5	63.7	48.0	85
022191	<u>C. mydas</u>	BBC324/PPW577	29.8	29.8	31.1	25.1	23.8	25.0	7.9

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 JANUARY - MARCH 1991

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals (Cont'd.)									
022391	<u>C. caretta</u>	BBC325/PPW578	54.9	56.0	60.1	59.0	48.5	44.6	55
022391	<u>C. caretta</u>	BBC326/PPW579	55.6	56.5	60.0	60.3	50.4	46.0	63
022391	<u>C. mydas</u>	BBC327/PPW580	48.2	48.7	51.7	45.9	38.7	39.7	28
022391	<u>C. caretta</u>	BBC328/PPW581	59.4	60.3	67.2	62.6	50.4	46.3	NM
022391	<u>C. caretta</u>	BBC329/PPW582	63.7	64.8	69.6	67.9	54.5	49.8	87
022391	<u>C. caretta</u>	BBC330/PPW583	57.7	59.1	63.0	59.5	50.0	46.3	67
022391	<u>C. caretta</u>	PPW585/PPW586	59.4	60.5	65.6	61.0	51.0	46.6	73
022391	<u>C. caretta</u> ⁴	AAJ874/PPW538 AAJ878/PPW584	63.5	64.8	67.6	64.0	52.6	49.9	80
022491	<u>C. caretta</u>	PPW587/PPW588	49.8	50.9	54.3	51.7	42.2	40.8	41
030191	<u>C. caretta</u>	BBC331/PPW589	58.8	59.9	63.9	60.7	50.8	48.4	72
030191	<u>C. mydas</u>	PPW590/PPW591	30.8	30.8	32.8	27.9	24.9	25.3	8.2
030191	<u>E. imbricata</u> ⁵	BBC332/PPW592	83.4	83.8	88.3	85.3	63.4	65.9	191
030791	<u>C. caretta</u>	BBC333/PPW593	53.5	54.2	60.0	55.2	46.4	43.4	59
030791	<u>C. caretta</u>	BBC334/PPW594	54.5	55.0	57.6	57.6	48.1	44.6	59
030891	<u>C. caretta</u>	BBC335/PPW595	63.8	64.9	69.3	65.2	54.2	49.9	78
030891	<u>C. caretta</u>	BBC336/PPW596	56.5	57.6	61.8	59.0	49.5	45.9	63
030891	<u>C. caretta</u> ⁶	PPW597	86.3	88.5	95.8	87.5	69.4	64.6	158
031591	<u>C. caretta</u>	BBC337/PPW598	66.4	67.6	73.6	68.2	55.7	52.9	107
031991	<u>C. caretta</u>	BBC338/PPW626	60.9	62.0	66.3	62.7	50.5	48.3	75
032291	<u>L. kemp</u>	BBC339/PPW599	51.5	52.0	54.4	53.0	47.7	39.3	41
032591	<u>C. caretta</u>	BBC340/PPW600	55.8	56.6	61.7	58.0	48.8	44.4	62



MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
JANUARY - MARCH 1991

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals (Cont'd.)									
032691	<u>C. caretta</u>	BBC341/PPW627	61.1	63.0	67.2	62.3	51.2	46.6	75
032691	<u>C. caretta</u>	BBC342/PPW628	56.8	58.3	61.5	60.1	51.0	45.3	65
032691	<u>C. caretta</u> ⁷	AAJ879/PPW546	55.1	56.0	60.7	59.2	48.5	43.7	53
032691	<u>C. mydas</u>	PPW629/PPW630	25.8	26.2	27.6	24.6	22.2	21.1	5.3
032791	<u>C. caretta</u> ⁸	BBC343/PPW631	78.2	80.6	86.0	81.0	65.1	61.7	149
032791	<u>C. caretta</u> ¹	BBC344/PPW632	105.6	107.8	112.0	99.8	80.6	71.6	320
032791	<u>C. caretta</u>	BBC350/PPW633	59.1	60.4	64.3	59.3	48.2	46.0	65
032891	<u>C. caretta</u>	BBC345/PPW634	60.1	61.6	65.5	61.5	51.0	45.6	75
032891	<u>C. caretta</u>	BBC346/PPW635	53.7	54.1	57.8	55.0	46.0	41.5	47
032891	<u>C. caretta</u>	BBC347/PPW636	73.1	74.3	78.3	74.0	61.5	57.4	129
032991	<u>C. caretta</u>	BBC348/PPW637	59.1	60.5	64.5	61.4	49.9	47.3	72
033191	<u>C. caretta</u> ⁹	BBC346/PPW635	53.7	54.1	57.8	55.0	46.0	41.5	47

¹Adult male

²ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 24OCT90.

³This underweight turtle was given to Sea World for rehabilitation.

⁴ABI recapture. This turtle was removed from the intake canal, tagged (AAJ723/PPW349) and released 2.5 km south of the intake on 30MAY90. When it was recaptured in the intake canal on 6SEP90, AAJ723 was missing. Tags AAJ874 and PPW538 were applied and the turtle was released just south of the intake on 6SEP90. After the 23FEB91 capture, AAJ874 was removed and PPW584 was applied.

⁵Adult female.



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MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
JANUARY - MARCH 1991

⁶Adult female. This lethargic and emaciated turtle was transferred to Sea World for rehabilitation on 8MAR91. It died on 12MAR91. A necropsy was performed by Sea World.

⁷ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 24OCT90.

⁸This turtle was taken to the University of Florida on 27MAR91. On 28MAR91, ten external lesions were removed from the turtle for analysis by Elliott R. Jacobson. The turtle was released in good condition on 28MAR91.

⁹ABI recapture. This turtle was removed from the intake canal, tagged and released just south of the intake on 28MAR91. Measurements reported for 31MAR91 were taken on 28MAR91.

NOTE: Tag PPW565 malfunctioned and was not applied to a turtle.

NM = No measurement taken

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