NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

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FROM: Flordia Power & Light Co.
Miami, Flordia
R.E. Uhrig

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Environmental Tech. Spec. Report Concerning Impingement of Aquatic Organisms - March 1976.

(1 Signed Cy. Received)
(8 Pages)

St. Lucie # 1

ENCLOSURE

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FLORIDA POWER & LIGHT COMPANY

June 15, 1976
L-76-230

Director of Nuclear Reactor Regulation
Attn: Mr. Victor Stello, Jr., Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Stello:

Re: St. Lucie Unit No. 1 - Docket No. 50-335
Environmental Technical Specifications Report

Florida Power & Light Company is submitting the attached reports in accordance with Specifications 4.2 of Appendix B.

Very truly yours,

Robert E. Uhrig

Robert E. Uhrig
Vice President

REU/JAD/hlc
Attachments

cc: Jack R. Newman, Esq.

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5280

PEOPLE . . . SERVING PEOPLE

IMPINGEMENT OF AQUATIC ORGANISMS - MARCH 1976

During the month of March, no intake screen washings were sampled, because the circulating water pumps were operated intermittently. Any samples taken would have resulted in irrelevant data.

IMPINGEMENT OF AQUATIC ORGANISMS - APRIL 1976

Impingement studies at the Florida Power & Light St. Lucie Plant were initiated in April, 1976. Although the plant was not in operation, testing of the circulating pumps enabled us to obtain three complete 24-hour samples (Tables I-1 through I-3). These samples were taken at approximately one week intervals. All of the fishes and commercially important invertebrates are herein reported. Although not presented in the tables, data were recorded on other invertebrates impinged (such as other species of crustaceans, jellyfish, and polychaete worms). Throughout this study, length is recorded to the nearest millimeter. Standard length, from the tip of the snout to the base of the caudal fin, is the measurement used for the majority of fishes. Carapace (shell) width is used for measuring crabs; carapace length for shrimp and lobster. Weight is generally recorded to the nearest gram. Fishes and shellfishes were weighed and measured individually up to 25 specimens. A range of lengths and the combined weight was obtained for the balance of individuals when over 25 specimens were collected. For monthly reports on impingement, the data from individual measurements have been combined and are presented in major size groupings.

TABLE I-1
IMPINGEMENT, ST. LUCIE, 1-2 APRIL 1976.

TIME	SPECIES	Number of Individuals	Range of Standard Lengths (mm)	Weight (gms)
0100-0930	shrimp	7	14-25	30
	blue crabs	2	106-131	225
	Cuban anchovy	5	40-50	4
	bay anchovy	4	38-41	2
	gray snapper	1	134	73
	lined sole	1	39	2
0930-1700	shrimp	3	13-20	8
	blue crab	1	90	49
	bay anchovy	7	40-47	7
	Cuban anchovy	3	47-49	4
	planehead filefish	1	54	6
1700-0100	shrimp	2 7	10 84-105	2 49
	blue crab	1	97	73
	crevalle jack	1	322	831
	bay anchovy	1	41	1
	Cuban anchovy	1	49	2
	lined sole	1	46	3

TABLE I-2
IMPINGEMENT, ST. LUCIE, 9 - 10 APRIL 1976.

TIME	SPECIES	Number of Individuals	Range of Standard Length(mm)	Weight (gms)
0100-0900	shrimp	10	8-12	5
		5	21-25	33
	blue crabs	6	76-107	370
	silver jenny	2	86-89	33
	lined sole	2	32-46	4
	Cuban anchovy	2	46-50	2
	bay anchovy	1	45	1
	pigfish	1	42	2
	crevalle jack	1	345	915
	tonguefish			
0900-1700	blue crabs	4	84-94	213
		2	110-114	138
	shrimp	1	11	1
		2	27-32	32
	spiny lobster	1	11	1
	Cuban anchovy	93	41-60	146
	bay anchovy	72	38-55	82
	bigeye anchovy	6	51-56	12
	silver jenny	28	61-92	354
	Atlantic bumper	7	80-102	78
	menhaden	3	30-39	2
	tomtate	1	108	28
	smallmouth grunt	1	97	20
	scrawled cowfish	1	32	4
	yellow jack	1	51	4
	butterfish	1	40	2

TABLE I-2.

IMPINGEMENT, ST. LUCIE, 9-10 APRIL 1976.
(continued)

TIME	SPECIES	Number of Individuals	Range of Standard Lengths(mm)	Weight (gms)
1700-0100	shrimp	1 5	10 18-23	1 28
	blue crab	1	86	48
	bay anchovy	25	38-55	30
	Cuban anchovy	8	46-58	10
	southern puffer	1	125	66
	cusk-eel	1	93	3
	sand drum	1	34	1
	menhaden	1	37	1

TABLE I-3.
IMPINGEMENT, ST. LUCIE, 16-17 APRIL 1976.

TIME	SPECIES	Number of Individuals	Range of Standard Lengths(mm)	Weight (gms)
0100-0930	shrimp	4	9-17	4
	blue crabs	3	89-110	238
	Cuban anchovy	31	47-57	36
	bay anchovy	26	40-56	26
	bigeye anchovy	1	53	1
	leopard searobin	1	89	11
	chain pipefish	1	54	2
	mojarra	1	35	1
0930-1700	blue crabs	3	98-127	337
	spiny lobster	1	15	1
	Cuban anchovy	153	48-58	213
	bay anchovy	62	38-57	62
	bigeye anchovy	13	51-58	27
	black margate	4	113-124	210
		2	145-161	251
		1	184	215
	porkfish	3	77-91	69
		1	119	63
		1	155	137
	sand drum	4	38-40	4
		1	77	7
	reef croaker	1	61	4
		4	94-104	83
	tomtate	3	102-117	105
	silver porgy	2	116-137	159
	sailors choice	1	89	20
	bluestriped grunt	1	141	85
	white grunt	1	204	254
	seaboard goby	1	37	1
	planehead filefish	1	75	236

TABLE I-3.
IMPINGEMENT, ST. LUCIE, 16-17 APRIL 1976.
(continued)

TIME	SPECIES	Number of Individuals	Range of Standard Lengths (mm)	Weight (gms)
1700-0100	shrimp	2	18-22	6
	bay anchovy	42	40-51	39
	Cuban anchovy	30	46-55	35
	bigeye anchovy	2	51-53	4
	striped anchovy	1	61	2
	sand drum	2	43-44	2
	lined sole	1	43	1
	leopard searobin	1	36	1
	pigfish	1	50	3
	southern stargazer	1	181	192
	horse-eye jack	1	23	1