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50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389

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WOODY, C.O. Florida Power & Light Co.  
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SUBJECT: Forwards results of plant beach survey procedure & reduction of field survey data completed on 890524 & 0605.

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TO THE HONORABLE MEMBERS OF THE HOUSE OF REPRESENTATIVES  
IN SENATE CHAMBERS, WASHINGTON, D. C.  
JANUARY 10, 1951



JUNE 28 1989

L-89-227  
10 CFR 50.36

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  
Beach Survey

In accordance with Technical Specification Surveillance Requirement 4.7.6.1.1, the field survey for the St. Lucie Plant Beach Survey Procedure was completed May 24, 1989 and the reduction of the field survey data was completed on June 5, 1989. The results of the survey procedure are attached. Also attached is a figure which locates the survey with respect to plant features.

The survey showed the following (data in feet):

	<u>Min.</u>	<u>Avg.</u>	<u>Max.</u>
Width at dune crest elevation:	11	30.4	54
Crest elevation (MSL Ocean):	7.3	10.1	14.3
Width of dune at elevation of Old Dune Road:	110	136.6	165

Since the average values of these survey results are greater than or within the range of those provided in the St. Lucie Unit 1 Updated Final Safety Analysis Report (UFSAR), Section 2.4.2.2, it is concluded that the dune condition is acceptable according to the criteria in St. Lucie Unit 1 Technical Specification 5.1.3.

If there should be any questions regarding this subject, please contact us.

Very truly yours,

  
C. O. Woody  
Acting Senior Vice President - Nuclear

COW/EJW/gp  
Attachment

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

8907050284 890628  
PDR ADDOCK 05000335  
PDC

COOL 5  
1/1

ST. LUCIE SITE - DUNE SURVEY  
MAY 22 THROUGH MAY 24, 1989

REF. RD. NO.	CREST ELEVATION ABOVE MSL (FT.)**	DUNE WIDTH AT CREST ELEVATION (FT.) (*)	WIDTH AT OLD DUNE ELEVATION (FT.)
76	8.3	16	40
77	7.4	54	26
78	8.8	15	95
79	7.7	43	94
80	9.5	26	56
80-A	9.5	40	63
80-B	14.3	28	N/A
81	11.8	40	N/A
81-A (FPL)	12.7	21	N/A
81-B (FPL)	12.0	34	N/A
82	11.7	43	N/A
82-A (FPL)	11.8	38	N/A
82-B (FPL)	11.6	11	N/A
83	11.3	15	N/A
84	9.0	26	N/A
85	8.4	22	N/A
86	7.3	46	N/A
87	8.3	37	N/A
88	9.7	23	N/A
AVERAGE:	10.1	30.4	62.3
MAXIMUM:	14.3	54	95
MINIMUM:	7.3	11	26

(\*) Measured one foot below the crest elevation. The crest elevation is a point which, of course, has no width.

(\*\*) Elevation taken at centerline of Old Dune Road.

N/A No apparent road visible.

N/R Not recovered.

Elevations shown here are based on NGV 1929 Datum.

ST. LUCIE SITE - DUNE SURVEY  
MAY 22 THROUGH MAY 24, 1989

<u>REF.</u> <u>NO.</u>	<u>DISTANCE FROM CENTER OF OLD</u> <u>DUNE ROAD TO MHW (FT.)</u>
76	115
77	110
78	149
79	149
80	151
80-A	165
80-B	117
81	N/A
81-A	N/A
81-B	N/A
82	N/A
82-A	N/A
82-B	N/A
83	N/A
84	N/A
85	N/A
86	N/A
87	N/A
88	N/A

AVERAGE:	136.6
MAXIMUM:	165
MINIMUM:	110

N/A: NO APPARENT VISIBLE ROAD  
N/R: NOT RECOVERED

FLORIDA POWER & LIGHT COMPANY  
 ST. LUCIE PLANT

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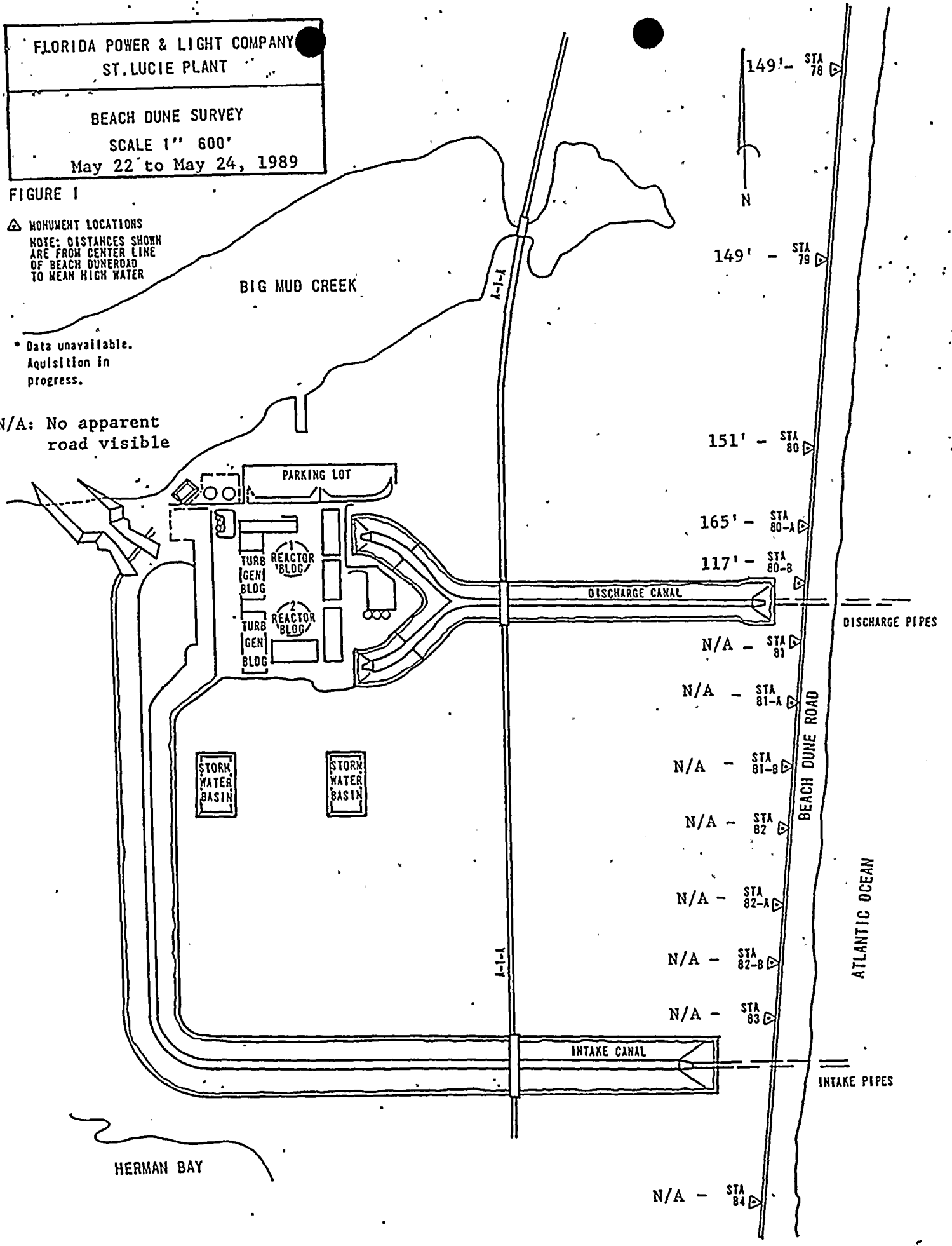
BEACH DUNE SURVEY  
 SCALE 1" = 600'  
 May 22 to May 24, 1989

FIGURE 1

▲ MONUMENT LOCATIONS  
 NOTE: DISTANCES SHOWN  
 ARE FROM CENTER LINE  
 OF BEACH DUNE ROAD  
 TO MEAN HIGH WATER

• Data unavailable.  
 Acquisition in  
 progress.

N/A: No apparent  
 road visible



149' - STA 78

N

149' - STA 79

BIG MUD CREEK

151' - STA 80

165' - STA 80-A

117' - STA 80-B

PARKING LOT

TURB REACTOR GEN BLDG  
 2  
 TURB REACTOR GEN BLDG

DISCHARGE CANAL

DISCHARGE PIPES

N/A - STA 81

N/A - STA 81-A

N/A - STA 81-B

STORM WATER BASIN

STORM WATER BASIN

N/A - STA 82

N/A - STA 82-A

N/A - STA 82-B

N/A - STA 83

INTAKE CANAL

INTAKE PIPES

HERMAN BAY

ATLANTIC OCEAN

N/A - STA 84

FLORIDA POWER & LIGHT COMPANY  
ST. LUCIE PLANT

BEACH DUNE SURVEY

SCALE 1" = 1,400'

May 22 to May 24, 1989

FIGURE 2

▲ MONUMENT LOCATIONS  
NOTE: DISTANCES SHOWN  
ARE FROM CENTER LINE  
OF BEACH DUNE ROAD TO  
MEAN HIGH WATER

• Data unavailable.  
Aquisition in  
progress.

N/A: No apparent  
road visible

