



MH Dew

**RESPONSE TO FREEDOM OF
INFORMATION ACT (FOIA) / PRIVACY
ACT (PA) REQUEST**

2000-0058

2

RESPONSE TYPE FINAL PARTIAL

REQUESTER

Paul Gunter

DATE

DEC 22 1999

PART I. -- INFORMATION RELEASED

- No additional agency records subject to the request have been located.
- Requested records are available through another public distribution program. See Comments section.
- APPENDICES **B** Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.
- APPENDICES **C** Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.
- Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 2120 L Street, NW, Washington, DC.
- APPENDICES **C** Agency records subject to the request are enclosed.
- Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- We are continuing to process your request.
- See Comments.

PART I.A -- FEES

- AMOUNT * You will be billed by NRC for the amount listed. None. Minimum fee threshold not met.
- \$ You will receive a refund for the amount listed. Fees waived.

* See comments for details

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- No agency records subject to the request have been located.
- Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.
- This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Carol Ann Reed

**APPENDIX B
RECORDS ALREADY AVAILABLE IN THE PDR**

<u>NO.</u>	<u>DATE</u>	<u>ACCESSION NUMBER</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
1.	02/07/96	9602200267	Letter to A. Kemmerer, National Marine Fisheries Service from D. Crutchfield (116 pages)
2.	02/07/97	9705150142	Letter to D. Crutchfield, NRC from P. Montanio, Dept. of Commerce/NOAA; SUBJECT: Biological Opinion for St. Lucie Plant (44 pages)
3.	03/26/97	9704030028	Letter to NRC from J. Stall, Florida Power & Light Co.; SUBJECT: Wastewater Permit Application (85 pages)
4.	04/17/97	9704210148	Memo to F. Hebdon, NRC from L. Wiens, NRC; SUBJECT: Meeting with Florida Power & Light Co. concerning Radiological assessment on impacts to sea turtles at the St. Lucie Plant. (4 pages)
5.	05/27/97	9706020184	Letter to Florida Power & Light Co. from L. Wiens, NRC; SUBJECT: Summary meeting on 5/7/97, regarding assessment of impacts to sea turtles at the St. Lucie site. (4 pages)
6.	05/30/97	9706030259	Letter to T. Plunkett, Florida Power & Light Co. from L. Wiens, NRC; SUBJECT: Section 7 Biological Consultation, Biological Opinion (2 pages)
7.	07/07/97	9707150009	Letter to NRC from J. Stall, St. Lucie Plant; SUBJECT: Unusual or Important Environmental Events (3 pages)

**APPENDIX B
RECORDS ALREADY AVAILABLE IN THE PDR (con't)**

<u>NO.</u>	<u>DATE</u>	<u>ACCESSION NUMBER</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
8.	07/30/97	9708130223	Letter to C. Coogan, National Marine Fisheries Service from D. Matthews, NRC; SUBJECT: The effects of continued operation of the St. Lucie Plant on listed sea turtle species. (4 pages)
9.	08/04/97	9708110076	Letter to NRC from J. Stall, St. Lucie Plant; SUBJECT: NMFS Sea Turtle Biological Opinion (15 pages)
10.	08/07/97	9708140187	Letter to NRC from J. Stall, St. Lucie Plant; SUBJECT: St. Lucie Units 1 and 2 (50 pages)
11.	08/26/97	9709100167	Letter to D. Matthews, NRC from H. Diaz-Soltero, U.S. Dept. of Commerce/NOAA; SUBJECT: Revise incidental take statement of 2/27/97 biological opinion (2 pages)
12.	10/01/97	9710060020	Letter to T. Plunkett, Florida Power & Light Co. from L. Wiens, NRC; SUBJECT: Revised Incidental take Statement Limit St. Lucie Plant, Units 1 and 2 (6 pages)
13.	10/06/97	9710100221	Letter to T. Plunkett, Florida Power & Light Co. from F. Hebdon, NRC; SUBJECT: Biological Opinion St. Lucie Plant, Units 1 and 2 (4 pages)
14.	12/01/97	9712080206001	Letter to NRC from J.A. Stall, St. Lucie Plant; SUBJECT: St. Lucie Units 1 and 2, Proposed License Amendment, Environmental Protection Plan Revision. (24 pages)

**APPENDIX B
RECORDS ALREADY AVAILABLE IN THE PDR (con't)**

<u>NO.</u>	<u>DATE</u>	<u>ACCESSION NUMBER</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
15.	12/18/97	9801050181	Memo to F. Hebdon, NRC from L. Wiens, NRC.; SUBJECT: Forthcoming meeting with Florida Power & Light Co. concerning Environmental Protection of Sea Turtles at the St. Lucie Plant. (6 pages)
16.	02/09/98	9802240233	Letter to Florida Power and Light Co. from L. Wiens, NRC; SUBJECT: Summary of meeting on 1/20/98, regarding Environmental Protection Program for Sea Turtles - St. Lucie Units 1 and 2 (9 pages)
17.	04/1998	9804220204	Florida Power & Light Co. St. Lucie Plant Unit 2 Annual Environmental Operating Report (FPL-97) (45 pages)
18.	04/15/98	9804220196	Letter to NRC from J. Stall; St. Lucie Plant; SUBJECT: 1997 Annual Environmental Operating Report (1 page)
19.	05/08/98	9806240194	Letter to D. Matthews, NRC from H. Diaz-Soltero, Dept of Commerce/NOAA; SUBJECT: Revised incidental take statement of the 2/7/97 biological opinion. (6 pages)
20.	05/08/98	9806240194	Letter to D. Matthews, NRC from H. Diaz-Soltero, U.S. Dept. of Commerce/NOAA; SUBJECT: Incidental take statement of 2/7/97 biological opinion (3 pages)

APPENDIX C
RECORDS BEING RELEASED IN THEIR ENTIRETY
(If copyrighted identify with *)

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
1.	Undated	Letter to NRC from J. Stall, St. Lucie Plant; SUBJECT: Environmental Protection Plan Report (3 pages)
2.	Undated	Turtle status on mortality limit (4 pages)
3.	Undated	Chronology for St. Lucie green sea turtle issue (9 pages)
4.	01/27/97	Dept of Environmental Protection Marine Turtle Permit (2 pages)
5.	05/01/97	E-mail to C. Craig & M. Masnik, NRC from L. Wiens, NRC; SUBJECT: St. Lucie Biological Opinion (1 page)
6.	05/21/97	E-mail to C. Craig & L. Wiens, NRC from M. Masnik, NRC; SUBJECT: St. Lucie (1 page)
7.	06/06/97	E-mail to D. Matthews, J. Wilson, C. Craig, NRC from L. Wiens, NRC; SUBJECT: St. Lucie Turtle Mortality (1 page)
8.	06/06/97	E-mail to L. Wiens, NRC from G. Madden, Florida Power & Light; SUBJECT: Green Turtle Mortality (2 pages)
9.	06/09/97	E-mail to L. Wiens & C. Craig, NRC from M. Masnik, NRC; SUBJECT: St. Lucie Turtles (1 page)
10.	07/01/97	E-mail to R. Martin, NRC from G. Madden, Florida Power & Light; SUBJECT: Green Turtle Mortality (1 page)
11.	07/01/97	E-mail to R. Martin, NRC from G. Madden, Florida Power & Light; SUBJECT: Green Turtle Mortality (1 page)

APPENDIX C
RECORDS BEING RELEASED IN THEIR ENTIRETY (con't)
(If copyrighted identify with *)

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
12.	7/17/97	E-mail to L. Wiens, NRC from G. Madden, Florida Power & Light; SUBJECT: January and March mortalities (1 page)
13.	10/20/97	E-mail to L. Wiens, NRC from G. Madden, D. Florida Power & Light; SUBJECT: Green Turtle Mortality (1 page)
14.	12/31/97	Federal Register, Vol 62, No. 250 SUBJECT: St. Lucie Plant, Units 1 and 2; Amendment request (2 pages)
15.	01/20/98	Handout of St. Lucie Nuclear Plant Sea Turtle Meeting (26 pages)
16.	05/01/98	Letter to NRC from R. Grazio, Florida Power Corp.; SUBJECT: Report of significant Environmental Event (3 pages)
17.	01/11/99	E-mail to B. Gleaves, NRC from G. Madden, Florida Power & Light; SUBJECT: 1998 Turtle captures (2 pages)
18.	02/16/99	E-mail from C. Craig to Robert Jolly, subject: St. Lucie Turtle Study. (1 page)
19.	03/24/99	Memo to file from K. Leigh, NRC; SUBJECT: Notes from the St. Lucie Conference call regarding reporting requirements and proposed changes to append B of operating license (5 pages)
20.	03/30/99	Memo to H. Berkow, NRC from C. Carpenter, NRC; SUBJECT: Safety Evaluation Report input and environmental assessment for St. Lucie Units 1&2 (11 pages)

APPENDIX C
RECORDS BEING RELEASED IN THEIR ENTIRETY (con't)
(If copyrighted identify with *)

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
21.	06/29/99	Federal Register, Vol 64, No. 124 SUBJECT: Florida Power & Light Co., Inc. St. Lucie Plant, Units 1 and 2; Environmental Assessment and finding of no significant impact (1 page)
22.	10/07/99	E-mail to B. Zalcmn, NRC from B. Gleaves, NRC; SUBJECT: Turtle mortality (1 page)
23.	10/07/99	E-mail to B. Gleaves, NRC from G. Madden, Florida Power & Light; SUBJECT: September 1999 Turtle capture update (1 page)
24.	10/12/99	E-mail from K. Leigh, NRC to D. Bernhart, NOAA SUBJECT: St. Lucie Nuclear Power Plant and ESA consultation (1 page)
25.	11/10/99	11/10/99 Meeting Agenda (3 pages)
26.	11/17/99	Memo from c. Carpenter to H. Berkow, subject: Initiate Consultation with the National Marine Fisheries Service Regarding Sea Turtles Protected Under the Endangered Species Act at the St. Lucie Nuclear Plant. (3 pages)
27.	Various	Licensee Event Reports of turtle incidents. (5 pages)
28.	01/15/99	Letter from R. Trindell to J. Gorham enclosing 1999 turtle permit . (8 pages)

L-99-214
10CFR 50.36b
EPP 4.1

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Environmental Protection Plan Report
Event Dates: September 6, 1999, September 7, 1999, and September 19, 1999
Unusual or Important Environmental Events

The attached report is being submitted pursuant to the requirements of Section 4.1 of the St. Lucie Units 1 and 2 Environmental Protection Plans. The report provides descriptions of three reportable green sea turtle mortalities in the St. Lucie Plant intake canal.

Section 4.2.1(1) of the St. Lucie Units 1 and 2 Environmental Protection Plans requires reinitiation of formal consultation if the amount or extent of taking specified in the Incidental Take Statement is exceeded. The number of green sea turtle mortalities for 1999 has exceeded the Incidental Take Statement limit for green sea turtles at St. Lucie plant. FPL requests that the NRC begin the necessary steps to reinitiate formal consultation under Section 7 of the Endangered Species Act for green sea turtles.

Should you have any questions on this information, please contact us.

Very truly yours,

J. A. Stall
Vice President
St. Lucie Plant

JAS/GRM

Attachment

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

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St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
L-99-214 Attachment Page 1

**ST. LUCIE PLANT SEA TURTLE MORTALITIES
30-DAY WRITTEN REPORT**

EVENT DESCRIPTION

At approximately 0200 hours on September 6, 1999, a dead green sea turtle (*Chelonia mydas*) was recovered from the Unit 1 intake well. The turtle, which weighed approximately 4.5 lbs., was badly decomposed when recovered.

At approximately 0810 hours on September 7, 1999, another dead green sea turtle, weighing approximately 12 lbs., was recovered from the plant intake canal. This turtle, which was only slightly decomposed, was found against the 8-inch barrier net located at the A1A Bridge.

At approximately 1100 hours on September 19, 1999, a severely decomposed green sea turtle weighing approximately 25 lbs. was also found against the 8-inch barrier net.

These mortalities bring the total to four for this species so far this year at the St. Lucie Plant. The limits for mortalities of this species in the National Marine Fisheries Incidental Take Statement, issued to the site by the NRC in 1997, is three or 1.5% of the total captured, whichever is greater. To date, the total number of green sea turtles captured (<100) has not approached the quantity necessary to increase the incidental take by percentage.

CAUSE OF THE EVENTS

The 5-inch turtle barrier net, which was installed upstream of the 8-inch barrier net, had been lowered due to heavy loading of drift algae approximately 8 days prior to the first mortality. This net had to be lowered again September 13, 1999, due to the approach of Hurricane Floyd. It has been determined that catastrophic damage to this net can occur if abnormal tension is placed on the cables and anchors.

Several turtles were observed behind the 8-inch barrier net prior to the mortalities, but capture efforts proved largely unsuccessful. The small turtle found in the plant intake well was small enough to pass through both the 8-inch net and the plant Underwater Intrusion Detection System. It is not known if this turtle actually died in the intake well or somewhere upstream of the wells.

The two turtles found at the 8-inch barrier net were not entangled in the net itself. There were no signs of external injury on the first turtle. The second turtle, which was found badly decomposed, was probably confined between the two barrier nets when the 5-inch net was raised back into position. Cause of these turtle deaths could not be immediately determined.

The influx of drift algae is attributed to increased wave action offshore resulting from Hurricane Dennis. This storm passed relatively close to the East Coast of Florida. Following

St. Lucie Units 1 and 2

Docket Nos. 50-335 and 50-389

L-99-214 Attachment Page 1

Hurricane Dennis, Hurricane Floyd also passed near the coast, also creating high winds and seas. Although it is not presently known what caused the death of the three green sea turtles, the harsh conditions offshore and subsequently in the canal could have been a contributing factor.

CORRECTIVE ACTIONS

Canal conditions allowed the 5-inch barrier net to be raised back into position September 16, 1999. This net, due to its steeper and smaller mesh design, is more effective in retaining turtles in an area of the canal where they can be effectively captured. Capture efforts have been increased behind the 5-inch net until the remaining turtles are removed.

Section 4.2.1(1) requires reinitiation of formal consultation if the amount or extent of taking specified in the Incidental Take Statement is exceeded. Due to somewhat unusual offshore environmental conditions and the apparent increase in local populations, the number of green sea turtle mortalities for 1999 has exceeded the Incidental Take Statement limit for this species at St. Lucie plant. FPL requests that the NRC begin the necessary steps to reinitiate formal consultation under Section 7 of the Endangered Species Act for green sea turtles.

AGENCIES NOTIFIED

The Florida Department of Environmental Protection was notified of the three mortalities in compliance with Marine Turtle Permit #99.

Four-hour notifications were made to the NRC at 0225 hours on September 6, 1999, at 1226 hours on September 7, 1999, and at 1324 hours on September 19, 1999, in accordance with 10 CFR 50.72(b)(2)(vi).

October
1999

MONTH	GREEN	LOGGERHEAD	KEMPS RIDLEY	HAWKSBILL	LEATHERBACK	TOTAL
<i>Mortality Limit as per NMFS</i>	<i>3 or 1.5%, whichever is greater</i>	<i>2 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	
JANUARY	17	38	0	0	0	55
FEBRUARY	12 (1)	24	0	0	0	36 (1)
MARCH	8	14	0	0	1	23
APRIL	7	26	0	0	0	33
MAY	12	39	0	0	0	51
JUNE	7	29	0	0	0	36
JULY	10	41 (1)	0	0	0	51 (1)
AUGUST	15	25	0	0	0	40
SEPTEMBER	39 (3)	28	0	0	0	67 (3)
OCTOBER	21	11	0	1	0	33
NOVEMBER						
DECEMBER						
TOTAL TO DATE	148 (4)	275 (1)	0	1	1	425 (5)

C/2

September

1999

MONTH	GREEN	LOGGERHEAD	KEMPS RIDLEY	HAWKSBILL	LEATHERBACK	TOTAL
<i>Mortality Limit as per NMFS</i>	<i>3 or 1.5%, whichever is greater</i>	<i>2 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	
JANUARY	17	38	0	0	0	55
FEBRUARY	12 (1)	24	0	0	0	36 (1)
MARCH	8	14	0	0	1	23
APRIL	7	26	0	0	0	33
MAY	12	39	0	0	0	51
JUNE	7	29	0	0	0	36
JULY	10	41 (1)	0	0	0	51 (1)
AUGUST	15	25	0	0	0	40
SEPTEMBER	39 (3)	28	0	0	0	67 (3)
OCTOBER						
NOVEMBER						
DECEMBER						
TOTAL TO DATE	127 (4)	264 (1)	0	0	1	392 (5)

1998

MONTH	GREEN	LOGGERHEAD	KEMPS RIDLEY	HAWKSBILL	LEATHERBACK	TOTAL
<i>Mortality Limit as per NMFS</i>	<i>3 or 1.5%, whichever is greater</i>	<i>2 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	
JANUARY	25	36	0	0	0	61
FEBRUARY	58	28	2	0	0	88
MARCH	30	60	0	0	0	90
APRIL	20	47	0	0	0	67
MAY	35	29	0	1	0	65
JUNE	16	26	0	0	1	43
JULY	7	57	0	0	0	64
AUGUST	22	44	0	0	0	66
SEPTEMBER	10	17	0	0	0	27
OCTOBER	27	25 (1)	0	1	0	53 (1)
NOVEMBER	10	10	0	0	0	20
DECEMBER	9	13	0	0	0	22
TOTAL TO DATE	269	392 (1)	2	2	1	666 (1)

MONTH	GREEN	LOGGERHEAD	KEMPS RIDLEY	HAWKSBILL	LEATHERBACK	TOTAL
<i>Mortality Limit as per NMFS</i>	<i>3 or 1.5%, whichever is greater</i>	<i>2 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	
JANUARY	17	38	0	0	0	55
FEBRUARY	12 (1)	24	0	0	0	36 (1)
MARCH	8	14	0	0	1	23
APRIL	7	26	0	0	0	33
MAY	12	39	0	0	0	51
JUNE	7	29	0	0	0	36
JULY		(1)				
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER						
DECEMBER						
TOTAL TO DATE	63 (1)	170	0	0	1	234 (1)

CHRONOLOGY FOR ST. LUCIE GREEN SEA TURTLE ISSUE

October 26, 1995

To: FPL, Gary Bouska

From: NMFS, Andrew Kremmer

Letter to FPL stating NMFS believes dredging activities associated with installation of 5-inch Barrier Net for intake canal is unlikely to affect sea turtles, provided the safeguards described by FPL are followed. Further indicates that consultation responsibilities under Section 7 of ESA are concluded for this activity.

November 20, 1995

To: NRC, Doc. Control Desk

From: FPL, D.A. Sager

Forwards BA to the NRC, Assessment of Impacts of the St. Lucie Nuclear Generation Plant on Sea Turtles Found in Nearshore Waters of Florida, resulting from April 25 and October 19, 1995 meetings Between NRC, FDEP, NMFS, FPL.

February 7, 1996

To: NMFS, Andrew Kremmer

From: NRC, Dennis Crutchfield

Letter to NMFS submitting a BA as part of formal consultation initiated in May 1995 after FPL informed NRC of significant increases in the numbers of entrapped sea turtles at St. Lucie. FPL committed to continue sea turtle capture program -- tangle netting, hand capture and dip netting programs, tagging and health assessment activities, and necropsy and rehabilitation activities. Also, continue assistance to FDEP in beach nesting and sea turtle stranding network. NRC adopted with BA, agreed with FPL conclusion that continued operations will not jeopardize continued existence of 5 species of sea turtles evaluated in BA.

August 13, 1996

To: NMFS, David Bernhart

From: FPL, Gary Bouska

Letter to NMFS providing FPL's comments on the draft BO prepared by NMFS. FPL believes that it may be useful to have a sketch which generally displays how the plant is laid out in relation to the ocean, intake canal, and the discharge structure. FPL believes a brief Table of

C/3

Contents would add benefit to the BO. In the section entitled "Conservation Recommendations" condition 3, which suggests FPL "reexamine engineering solutions to prevent or reduce turtle entrainment at the intake structures" should be deleted. This recommendation is believed by FPL to be subject to broad interpretation and is extremely open ended. FPL also requests that recommendation number 4 be deleted since there is little evidence that the current residency times in the canal are excessive. FPL would like the following recommendation to be added to "Conservation Recommendations" in order to be consistent with the terms of the ITS:

- *3) FPL should continue to maintain an effective barrier net system to prevent turtles from reaching the plant intake wells.*

In the section entitled "Incidental Take Statement," FPL suggests:

- adding another condition that describes its obligations for installing and maintaining the new 5-inch barrier net
- deleting condition number 3 because it is part of the FDEP permit and may change in the future as the permit is renewed.
- change condition 5 to state FPL be required to periodically inspect the intake wells, as opposed to "visually inspect the intake wells at least 8 times each 24-hour period.
- add the language: *(4) FPL must continue to conduct, under proper permits and authority, the on-going sea turtle nesting programs and public service walks.*

August 16, 1996

To: FPL, Gary Bouska

From: NMFS, Charles Oravetz

Letter from NMFS responding to FPL's comment's provided in the August 13, 1996 letter regarding the draft BO. Many of the editorial comments on the text of the opinion have been accepted by NMFS and incorporated. NMFS response to FPL's specific comments are as follows:

- Biological Opinions follow a prescribed format which do not include tables of contents
- The BA contains a diagram of the plant's lay out and is a companion document to the BO, therefore the BO does not need a diagram of the plant layout
- With regard to conservation recommendations #3 and 4, NMFS still believes that further progress or investigation would be beneficial. However, these recommendations will be rewritten to express more clearly that there is a wide latitude in their actual interpretation
- FPL's suggestion to add a new conservation recommendation #3 would be repetitive of the recommended new measures #1 and 2 which are being adopted instead
- NMFS cannot agree to remove measure #3. This condition would not duplicate the FDEP permit and the specifics of this condition were discussed and agreed upon between NMFS, NRC, and FDEP. NMFS agrees that human safety should be the highest consideration and will reword this condition to reflect that
- NMFS believes that a daily inspection of the intake wells would not be sufficient to discover and remove turtles entrained into the intake wells.
- NMFS agrees with FPL's recommendation for measure #4 and will incorporate it into the BO

NMFS predicts the BO should be finalized in the next several weeks.

January 27, 1997

FDEP Permit

TP #099

Expires on January 31, 1998

Permit authorizes: (1) conduct nesting surveys, (2) conduct net capture, (3) capture turtles by hand, (4) tag and release turtles, (5) relocate nests, (6) rescue and release hatchlings, (7) conduct stranding/salvage activities. Also authorizes a nesting survey area and personnel. General conditions of permit state: Permitted individuals must adhere to the FDEP marine turtle permit guidelines developed under a Section 6 Cooperative Agreement between FDEP and the U.S. Fish and Wildlife Service. Special conditions of the permit were also included.

- 4) Each of the gratings at the unit 1 and 2 intake wells shall be visually checked at least four times each 24-hour period. This special condition will be reevaluated, upon request, if after a period of at least six months following installation of the 5-inch barrier net no turtles are recovered from the intake wells

February 7, 1997

To: NRC, Dennis Crutchfield

From: NMFS, Patricia Montanio

NMFS forwards BO to NRC concluding the continued operation of St. Lucie may adversely affect, but is unlikely to jeopardize the continued existence of listed species under NMFS jurisdiction. Incidental Take Statement was included in BO. ITS stated, variability in the rate of turtle entrapment is considered to be primarily a function of local abundance of the turtles. No max level for non-lethal takes. Two levels of lethal takes: fixed level of number of turtles of each species entrapped per calendar year and percentage of number of turtles entrapped per calendar year. It is NRC's responsibility to ensure that the terms and conditions of ITS are implemented.

May 6, 1997

To: NMFS, Rolland Schmitt

From: BIRCH, HORTON, BITTNER, AND CHEROT, William Horn

Letter from FPL's legal counsel requesting NMFS assistance to amend the pending ITS to remove the video study requirement (item #7). FPL feels the study will cost approximately \$500,000 and will produce no useful information to turtle conservation.

May 7, 1997

NRC Meeting Summary

NRC, FDEP, and FPL in attendance (NMFS was unable to attend). Discussed a study required by a condition of the ITS of the BO issued by NMFS regarding sea turtle entrapment in plant's intake canal. FPL indicated that the study of item 7 in the Terms and Conditions of ITS (proposed video example) was not feasible. Discussion of alternatives to the study was conducted. Additional, conditions 4, 6 and 10 of Terms and Conditions of ITS were identified as needing clarification an/or changes. Other than the above issues, FPL had implemented the provisions of the ITS.

May 30, 1997

To: FPL, Thomas Plunkett

From: NRC, L.A. Wiens

Letter forwarding the BO and ITS of February 7, 1997 to FPL. NRC requests FPL propose appropriate changes to the Environmental Protection Plan, Appendices B of the St. Lucie licenses, within 60 days of receipt of this letter. The proposed changes should reference the ITS included in the BO and provide that reasonable and prudent measures of the ITS will be taken.

ITS inspection issue:

- *6) The gratings at each of the intake wells shall be visually checked for turtles at least 8 times each 24 hour period*

August 4, 1997

To: NRC, Doc. Control Desk

From: FPL, J.A. Stall

Letter from FPL to NRC proposing revisions to the Environmental Protection Plan for the Unit 1 license to be consistent with the Unit 2 license. FPL also commented and suggested revisions to the 10 conditions of the ITS.

June 9, 1997

To: William Horn -- Birch, Horton, Bittner & Cherot

From: NMFS, Roland Schmitter

Letter stating NRC is appropriate agency to request amendments to ITS issued with the BO from February 7, 1997. NMFS contacted Mike Masnik to determine whether NRC would

request a change in the due date for submission of the study proposal from June 30, 1997 to December 31, 1997. NMFS and NRC do not foresee any problems with extending the submission date. However, official request and approval of this extension has not occurred.

July 1, 1997

To: William Horn -- Birch, Horton, Bittner & Cherot

From: NMFS, Roland Schmitter

NMFS states that upon request from NRC, NMFS anticipates extending the study by 6 months.

July 7, 1997

To: NRC, Document Control Desk

From: FPL, J. A. Stall

Event report for mortalities of 2 Green Sea turtles, one on June 4 and the other on June 30, 1997, from drowning due to excess algae on the 5-inch barrier net and the presence of a fishing line in the area of the canal. Corrective actions include enhancement of inspection/maintenance of barrier net and FPL requesting NRC to reinstate formal consultation because FPL had exceeded the proposed lethal limit of the ITS.

July 30, 1997

To: NMFS, Colleen Coogan

From: NRC, Dave Mathews

NRC requesting reinstatement of consultation with NMFS to amend lethal incidental take limit for green sea turtles. On May 30, 1997 NRC forwarded a BO to St. Lucie requesting appropriate changes be made to the Environmental Protection Plan within 60 days of receipt. Before St. Lucie was able to fully implement the BO, St. Lucie exceeded its lethal limit on green sea turtles defined in the ITS.

October 1, 1997

To: FPL, Thomas Plunkett

From: NRC, L. A. Wiens

Letter notifying FPL that the level of incidental takes for green sea turtles for the remainder of calendar year 1997 has been changed to authorize 2 additional lethal takes, authorizing 6 total takes for 1997. However, the levels of taking for other species and green sea turtles in future reporting years remain unchanged.

October 6, 1997

To: FPL, Thomas Plunkett

From: NRC, Frederick Hebdon

Letter to FPL from NRC stating NRC has reviewed the August 4, 1997 letter (from FPL providing comments/revisions to the ITS and EPP) and discussed its contents with NMFS. NRC agrees with making the two EPPs for St. Lucie consistent. NRC and NMFS disagree with the proposed changes to the ITS with one exception. Therefore, the BO, ITS and the terms and conditions, as outlined in February 1997, are final, with the exception of Condition #7. With regard to condition #7 of the ITS, NRC and NMFS recognize that this issue requires additional time for NMFS, NRC, and FPL to conduct a further review of the proposal. The implementation of Condition #7 will be delayed until the other terms and conditions are implemented. At that time, Condition #7 will be reevaluated. NRC requests FPL to submit proposed changes to the EPP, Appendices B of the St. Lucie, Units 1 and 2 licenses, within 60 days of the receipt of this letter.

December 1, 1997

To: NRC, Doc. Control Desk

From: FPL, J.A. Stall

FPL requests to amend Facility Operating Licenses for St. Lucie Units 1 and 2. Proposed amendment revises the Unit 1 and 2 Environmental Protection Plans Section 4 "Environmental Conditions," and Section 5, "Administrative Procedures," to incorporate the terms and conditions of the ITS included in the BO issued by NMFS on February 7, 1997. FPL also suggests the proposed license amendment be on the agenda of the first biannual meeting between NRC, NMFS, and FPL which was requested to be on January 28, 1998.

February 9, 1998

NRC Summary of January 20, 1998 Meeting

NMFS, NRC, FDEP, FPL were present at the meeting. This was the initial meeting of biennial series of meetings to review status of environmental protection of turtles. FPL indicated with data that the new 5-inch turtle mesh barrier was performing very well after improvements in net monitoring were implemented. The operation of the Tagrogge condenser tube cleaning system has improved with respect to the loss of cleaning balls as experience with the system increases. Proposed changes to Terms and Conditions of ITS:

- It was agreed that ITS would be modified to indicate that the licensee would have a program to inspect the intake well, with the details of the program, including the number of daily inspections, to be contained in plant procedures.
- NMFS and FDEP agreed to eliminate monthly reports to FDEP on the Taprogge condenser tube cleaning system ball loss and results of barrier net inspections/maintenance. This information would be included in the annual report submitted to NMFS and a copy would be sent to FDEP. The Taprogge

ball loss would be considered an unusual environmental event and be reported to NRC in a 72-hour report with a follow up 30-day report, with copies to NMFS and FDEP.

- It was agreed by all attendees that significant flexibility was needed to allow future updating of lethal take limits. It was proposed that the limits can be revised as necessary by letter request. NRC representatives agreed to discuss acceptability with NRC legal counsel.
- FPL proposed to defer a decision on the need for the video study until the next biennial meeting in order to gather more data on turtle captures. NMFS representatives indicated there is a need for this study even if the number of turtle captures return to lower previous levels. He also indicated that a video study was cited as an example, other studies may be more acceptable. The FPL licensing representative stated the licensing manager was strongly opposed to any further studies considering activities already supported by FPL to protect and gather data on turtles in the intake canal.

NMFS representative stated he would develop a supplement to the ITS to reflect changes to the intake well inspection requirements and reporting requirements discussed above. After discussions with management, he will include a revised schedule for submittal of a proposed study and any revision to study scope agreed by his management.

May 8, 1998

To: NRC, Dave Mathews

From: NMFS, Hilda Diaz-Soltero

Letter revising the ITS of the February 7, 1997 BO as a result of the January 20, 1998 meeting between NMFS, NRC, FDEP, and FPL. The annual, incidental, and lethal take limits specified in the ITS are not changed. Modifications are made to Terms and Conditions numbers 6, 7, 9, and 10.

6) FPL must implement a program to monitor for turtles at cooling water intake wells. Includes visual inspections of intake wells by plant operation, security, or biology personnel. Must include provisions for notifying appropriate response personnel if turtles are detected. FPL must provide a proposal for this monitoring program by June 20, 1998, for NMFS review and approval.

7) FPL must design and implement a study to elucidate the effect of various factors on turtle entrapment. FPL shall provide NMFS proposal plan for conducting this study by August 31, 1998. FPL must report quarterly on progress in this regard and provide a final report by January 31, 2000.

9) FPL shall continue to conduct, under proper permits and authority, ongoing sea turtle nesting programs and public service turtle walks.

10) Monthly reports covering sea turtle entrapment, capture, rehabilitation and release efforts, turtle mortality and unusual events shall be furnished to NMFS. Also, an annual report discussing these same topics and inspection/maintenance of barrier nets and operation of the Taprogge cleaning system and associated sponge ball loss shall be

furnished to NMFS. A meeting shall convene between FPL, NRC, and NMFS to discuss endangered and threatened species information and developments at the St. Lucie plant approximately every 2 years beginning in January 2000.

June 17, 1998

To: FPL, Thomas Plunkett

From: NRC, William Gleaves

NRC sends revised ITS to FPL (revised ITS is in letter from NMFS to NRC dated May 8, 1998). Based on the January 20, 1998 meeting between NRC, NMFS, FPL, and FDEP, NMFS has modified portions of the terms and conditions necessary to monitor and minimize lethal takes of sea turtles. NRC requests FPL to submitted changes to the EPP, Appendix B of the St. Lucie, Unit 1 and 2, licenses to reflect the revised ITS within 60 days of receipt of this letter.

August 26, 1998

To: NRC, Doc. Control Desk

From: FPL, J.A. Stall

FPL supplements the request to amend Facility Operating Licenses Units 1 and 2 submitted by FPL letter L-97-296 dated December 1, 1997. This supplement to the requested amendment of December 1, 1997 results from modification of the ITS by NMFS on May 8, 1998 and transmitted to FPL through the NRC by letter dated June 17, 1998. FPL was requested to submit the proposed program to monitor for turtles at the intake wells and submit a design and implementation plan for a study of the effect of various factors on turtle entrapment. FPL submitted a request for proposal of study as the proposed study program. The proposed FPL Intake well monitoring program states:

- The intake wells on both units are inspected once per shift by plant operators. Security Force Instruction, SFI #4, requires security officers to inspect the wells on both units for turtles between December 1 and March 31 of each year during their perimeter patrols. These inspections occur at various times during a security shift. For security reasons, the inspections are not performed at any standard periodicity. If turtles are observed in vicinity of intake wells, biology personnel are notified and respond with directed capture efforts.

In accordance with conditions 6 and 7 of the ITS, NRC is requested to forward the Intake well monitoring program and the proposed study to NMFS for review and approval prior to implementation of these conditions.

October 8, 1998

To: NMFS, Colleen Coogan

From: NRC, Thomas Essig

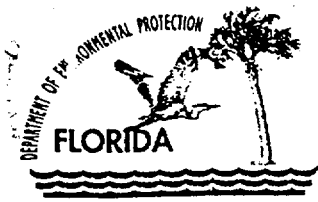
Letter to NMFS providing FPL's proposed intake well monitoring program and the proposed plan for conducting the turtle entrapment study for NMFS review.

December 18, 1998

To: NRC, Doc. Control Desk

From: FPL, J.A. Stall

Letter to NRC requesting endorsement of alternative reporting guidance for complying with requirements of 10 CFR 50.72(b)(2)(vi) for certain environmental events as set forth in Section 3.3.7 of NUREG 1022. FPL expresses confusion with guidance set forth in NUREG 1022 Section 3.3.7, "It is not clear how the turtle's condition (dead or alive) impacts whether or not a report would be required." FPL suggests NRC recommend through generic communication that licensees remove the EPP reporting requirements for unusual or important environmental events from their licenses and report environmental events only under 10 CFR 50.72 criterion.



Department of Environmental Protection

Lawton Chiles
Governor

Virginia B. Wetherell
Secretary

MARINE TURTLE PERMIT

Dr. Jonathan C. Gorham
Quantum Resources, Inc.
P.O. Box 1691
Jensen Beach, Florida 34958

TP #099

Permit Expires: 31 January 1998

Renewal, permitted activities unchanged.

Authorized To: (1) conduct nesting surveys, (2) conduct net capture, (3) capture turtles by hand, (4) tag and release turtles, (5) relocate nests, (6) rescue and release hatchlings, (7) conduct stranding/salvage activities.

Authorized Nesting Survey Area: South Hutchinson Island from Ft. Pierce Inlet south to approximately 150 yards north of Normandy Beach access (Index Nesting Beach Survey zones A through S).

Authorized Research Projects: None.

Authorized Personnel: J. Gorham, B. Peery, M. Bresette, J. Toebe, D. Singewald, S. Foster.

General Conditions: Permitted individuals must adhere to the FDEP marine turtle permit guidelines developed under a Section 6 Cooperative Agreement between FDEP and the U.S. Fish and Wildlife Service.

Special Conditions: See Attached Special Conditions.

David W. Arnold

David W. Arnold, Chief
Bureau of Protected Species Management
Division of Marine Resources

Date

1/27/97

cc: Sandy MacPherson, Southeast Regional Sea Turtle Coordinator, USFWS
FMP, District(s) 2
FDEP, Tequesta Office

C/4

1997 Special Conditions for Turtle Permit #099:

- 1) All live strandings (e.g., sick or injured turtles) must be transferred immediately to a state authorized sea turtle rehabilitation facility following consultation with FDEP personnel in Tequesta.
- 2) While the tangle net is deployed it shall be closely and thoroughly inspected via boat at least once per hour.
- 3) Netting effort shall be conducted for a minimum of 8 hours per day. Netting effort shall be increased to a minimum of 12 hours per day or during daylight hours, whichever is less, and 7 days per week if: 1) an adult turtle occurs in the canal during mating or nesting season (March through September), 2) a turtle remains in the canal for more than one week, 3) a leatherback occurs in the canal, or 4) an apparently weak or injured turtle occurs in the canal.
- 4) Each of the gratings at the unit 1 and 2 intake wells shall be visually checked at least four times each 24-hour period. This special condition will be reevaluated, upon request, if after a period of at least six months following installation of the new 5" barrier net no turtles are recovered from the intake wells.
- 5) Capture efforts shall be increased if a turtle swims west of the barrier at the A1A bridge. Every effort should be made to capture turtles before they enter the power plant's intake wells. If a turtle enters the intake wells, dip nets or other non-injurious methods should be used to remove the turtle.
- 6) All turtles removed from the canal must be photographed both dorsally and ventrally.
- 7) All dead turtles recovered from the canal, regardless of condition, must be placed on ice and held for transfer to FDEP personnel. FDEP shall be notified within 12 hours of recovery.
- 8) As per the requirements for the operation of the St. Lucie Plant Condenser Tube Cleaning System outlined within the facility's Best Management Practices Plan, FPL shall submit monthly reports that include the following information:
 - a) Average number of sponge ball loss per unit time (e.g., 1 ball/day).
 - b) Occurrence of any significant sponge ball loss events to include date and approximate number of sponge balls discharged.
 - c) Frequency of ball strainer back flushing.
 - d) Results of routine beach inspections for discharged sponge balls along the shoreline near the power plant; to include distance and frequency of survey and total number of sponge balls found.

From: Leonard Wiens *Claudia CRAIG*
To: WNP5.CMC1, WNP4.MTM2 - *Michael MASNIK*
Date: 5/1/97 4:23pm
Subject: ST. LUCIE BIOLOGICAL OPINION

The study that NMFS is requesting FPL to perform originally seemed to be grudgingly ok to the licensee. I just learned today however that FPL senior management is strenuously opposed to spending the money for the study, and so the tone of our meetings will likely be different, ie more to the point of the licensee trying to convince us that the study is unnecessary and not including it in our requirements. Their senior management will also probably be calling our management to plead their case, possibly as early as Monday.

Just a heads up so you won't be surprised by the licensee's actions.

CC: FJH

C/5

From: Michael Masnik *Claudia CRAIG*
To: WNP5.CMC1, WNP3.LAW - *Leonard Wiens*
Date: 5/21/97 2:28pm
Subject: St Lucie

I talked to Colleen Coogan of NMFS. She, after I convinced her that this was one not to fall on their sword over agreed that there was room to maneuver. She suggested that we send the letter to the licensee imposing the incidental take statement. They respond with a letter saying they plan to implement the program except the infamous study and raise their other issues as well. We then reiniate consultation by letter to NMFS stating that the infamous study be deleted and put in as a conservation recommendation and maybe they could do the leverage study so that NMFS doesn't loose face (besides it would provide some interesting data)

Claudia, she also mentioned that Brunswick is taking turtles and there is no incidental take statement. She found out through the state of SC. She said we better check into it and maybe begin a consultation. Given the heat the shrimp fishery has been taking all other sources of mortality better be covered by ITS.

CC: WNP5.DBM

C/6

From: Leonard Wiens
To: WNP5.DBM, WNP5.JHW1, WNP5.CMC1
Date: 6/6/97 1:38pm
Subject: ST. LUCIE TURTLE MORTALITY

DAVID MATTHEWS

JAMES WILSON

CLAUDIA CRAIG

The licensee just made a EPP Section 4.1 Unusual occurrence 72 hr report concerning the drowning of a Green turtle as a result of plant operations. The drowning resulted from a buildup of filamentous alga on the 5" net, causing it to become more vertical as a result of the increased flow resistance. The turtle became entangled and drowned. The licensee is taking action to clean the net and restore it to its previous inclination. A 30 day report will be submitted.

CC: FJH, WNP4.MTM2

C/7

From: <gmadden@email.fpl.com>
To: WND2.WNP3(law) — Leonard Wiens
Date: 6/6/97 2:51pm
Subject: Green Turtle Mortality

Len

Backup info on the EPP 4.1 Notification at 1:30PM 6/6/97.

GRM

Forward Header

Subject: Green Turtle Mortality
Author: Gary Bouska at USFPL800
Date: 6/5/97 1:08 PM

At approximately 2:10 pm on Wednesday, June 4, a small dead green turtle was found near the top of the 5-inch turtle barrier net. The apparent cause of death was drowning. The turtle appeared to be in good condition otherwise.

This is the third mortality for this species so far this year. The limits for mortalities for this species in the National Marine Fisheries Biological Opinion which was just transmitted to us by the NRC on May 30 is 3 or 1.5% of the total captured whichever is greater. In order to be allowed another mortality, we will have to capture 267 green turtles or more. To date we have only captured 112 so it is highly unlikely we will reach that number this year.

One of the things that could have contributed to this mortality is the condition of the 5-inch barrier net. Since early last week, the net has been heavily loaded with a fine, filamentous algae that has caused the current to stretch the net so it is in a vertical plane or even has some "bagging" in areas that could have held the turtle in place thereby drowning it. We began cleaning the net on Wednesday, May 28, but had to stop because the algae was clogging the strainers in the safety related cooling systems in the Plant. The cleaning did not cause the clogging since only a very small area was cleaned, but it would have added to the problem so L.U. was asked to wait with further cleaning until the strainer problem was manageable. Because of this mortality and the need to get the net back to its proper configuration, today we are coordinating with Operations to clean the net. We are just starting this now and will continue on a daily basis until the job is complete. Communications will be maintained with the Unit 1 Control Room at all times to make sure the cleaning is not overwhelming their ability to back flush the strainers if needed.

C/8

If anyone has any questions concerning this, please give me a call or
cc:Mail.

Gary

CC: ud1.internet3("Ed_Weinkam@email.fpl.com")

From: Michael Masnik — Leonard Wiens
To: WNP3.LAW, WNP5.CMC1 — Claudia CRAIG
Date: 6/9/97 2:35pm
Subject: St Lucie Turtles

I got a phone message last Friday from Barbara Schroeder from NMFS here in MD. She received a letter from the lawyers from St Lucie re the Biological Opinion. NMFS has a controlled correspondence system and they have to get a letter out in response to the licensee's letter. I told her we had sent the BO to the licensee and we expected the licensee to respond with a letter that initiated all the requirements except the ones they had problems with. I then expected the NRC to send NMFS a letter stating that we would like to reinstate consultation on the camera study. However the lawyers from the licensee I guess do not want to follow the plan. She asked me if it would be OK with us if she wrote back and stated that they were acceptable to the extent of submission of the plan of study from the end of June to the end of the year. I said we would not have any problem with the extension. Terese Conant (B. Schroeder backup) is faxing me a copy of the licensee's letter. She reminded me that we are the permitting agency and the licensee should be working through us not directly with NMFS

C/9

St. John

From: <gmadden@email.fpl.com>
To: WND2.WNP3(rem),ud1.internet3("UJENWGP.FPLMX_at_USF...
Date: 7/1/97 1:48pm
Subject: Re: Green Turtle Mortality *Robert Martin*

Bob Martin NRC-NRR

Attached is a description of the event reported to you at 13:35 today 7/1/97 in accordance with our Environmental Protection Plan (EPP) Section 4.1. That report constituted the 72 hour verbal report. We will be submitting the 30 day Written report by July 30, 1997.

George Madden

Reply Separator

Subject: Green Turtle Mortality
Author: Gary Bouska at USFPL800
Date: 6/30/97 3:00 PM

At approximately 1345 hours today, 6/30, while one of the turtle capture personnel was diving near the bottom of the intake canal about 50 feet from the west end of the 16-foot diameter intake headwall, a 20 pound dead green turtle was found. Cause of death appeared to be drowning after entanglement in nylon fishing line caught on the rocky bottom in that area. From the condition of the carcass, it appears the drowning occurred some time yesterday.

This is the fourth green turtle mortality since the beginning of the year. This is one more than the lethal take allowance in the Biological Opinion from the National Marine Fisheries Service that was recently transmitted to the site by the NRC. Under the terms of that lethal take statement, FPL is again supposed to request the reinitiation of the consultation process under Section 7 of the Endangered Species Act.

In accordance with the site's Marine Turtle Permit, the Tequesta Office of the Florida Department of Environmental Protection was notified. They requested that the turtle be frozen for them to pick up at a later date for possible necropsy.

If anyone has any questions about this, please call me at 467-7450 or send me a cc:Mail.

Gary

CC: ud1.internet3("Jonathan_Gorham_at_USFPL800@email.f...

Clid

From: <gmadden@email.fpl.com>
To: WND2.WNP3(rem),ud1.internet3("UJENWGP.FPLMX_at_USF...
Date: 7/1/97 1:48pm \ Robert MARTIN
Subject: Re: Green Turtle Mortality

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Reply Separator

Sub'i

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Date: 6/30/97 3:00 PM

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If anyone has any questions about this, please call me at 467-7450 or send me a cc:Mail.

Gary

From: <gmadden@email.fpl.com>
To: WND2.WNP3(law)
Date: 7/17/97 8:53am
Subject: January and March mortalities

Leonard Wiens

Len

FYI on first two turtle mortalities for the year.

GRM

Forward Header

Subject: January and March mortalities
Author: Jonathan Gorham at USFPL800
Date: 7/16/97 2:09 PM

Gary wanted me to give you some more info on the first two mortalities of 1997. They are also briefly discussed in the monthly reports.

On January 4, a fresh dead green turtle was found impinged upon, but not tangled in, the barrier net. The turtle was near normal weight and had no obvious injuries or abnormalities. The turtle was given to DEP for necropsy, no word back from them as yet. I feel this was a probable drowning, cause unknown.

On March 10, a fresh dead green turtle was recovered from the surface at the barrier net. The turtle was extremely emaciated, had extensive papilloma tumors, and heavy algal coverage. The turtle was given to DEP for necropsy, again no word back from them on findings. The very poor condition of this turtle obviously caused or was a major contributing factor in the mortality.

9/12

10 Dennis Leonard
10/20/97

From: <gmadden@email.fpl.com>
To: Leonard Wiens <law@nrc.gov>
Date: 10/20/97 11:20am
Subject: Green Turtle Mortality

FYI

GRM

----- Forwarded by George
Madden/Psl/Nuclear/FplNuc on 10/20/97 10:22 AM

Gary Bouska
10/20/97 08:24 AM

Sent by: Gary Bouska

To: NPS PSL/Psl/Nuclear/FplNuc@FplNuc, Shift Tech Adviser
STA/Psl/Nuclear/FplNuc@FplNuc, Dennis
Fadden/Psl/Nuclear/FplNuc@FplNuc, George
Madden/Psl/Nuclear/FplNuc@FplNuc, Nick
Whiting/Psl/Nuclear/FplNuc@FplNuc, Winifred Perkins@FPL,
Mitch Ross/Juno/Nuclear/FplNuc@FplNuc
cc: Jim Scarola/Psl/Nuclear/FplNuc@FplNuc, Kim
Svoboda/Psl/Nuclear/FplNuc@FplNuc, J A
Stall/Psl/Nuclear/FplNuc@FplNuc
Subject: Green Turtle Mortality

At approximately 0700 hours this morning, 10/20/97, a dead green turtle was found on the surface of the water at the 5-inch mesh barrier net. It was in a fresh condition indicating it probably came in some time between 1800 hours Sunday, 10/19/97, when the turtle capture shift ended, and this morning when it was found. The turtle weighed about 15 pounds and was in very poor condition. It was extremely emaciated and both of its eyes were completely covered with fibropapilloma tumors. For the above reasons, the determination at this point is that this mortality is not causal to plant operations. This is the fifth green turtle mortality for 1997 and is one under the new limit granted by the NRC in their 10/1/97 letter revising the Incidental Take Statement Limit in the National Marine Fisheries Service's Biological Opinion.

If anyone has any questions concerning the above, please call me at 7450 or send a Notes Mail.

Gary L. Bouska
Land Utilization Supervisor

CC: GATED.nrcsmtp("Ed_Weinkam@email.fpl.com")

kind of accident from any accident previously evaluated.

The proposed changes do not affect the actual instrument setpoints nor do they affect the accident mitigation instrumentation functions. No changes will occur in the way in which equipment is operated. The involved instrumentation will continue to perform its accident mitigation functions as designed. Therefore, the proposed license amendments can not create the possibility of a new or different kind of accident.

3. The proposed license amendments do not involve a significant reduction in a margin of safety.

The proposed changes affect accident mitigation instrumentation allowable values. The changes will not affect the accident mitigation instrumentation functions. No changes will occur in the way in which equipment is operated. The proposed changes establish the allowable values for certain functions in accordance with the CP&L setpoint methodology which has been approved, by the NRC, for use at the BSEP. The proposed allowable values were calculated by applying calibration based errors to the trip setpoint values; thereby establishing an operability limit associated with the entire loop of an instrumentation function to ensure sufficient margin to protect analytical limits. The changes do not affect the analytical limits associated with the involved instrumentation functions. The involved instrumentation will continue to perform its accident mitigation functions as designed. Therefore, the proposed license amendments do not involve a significant reduction in the margin of safety.

The NRC staff has reviewed the licensee's analysis and, based on this review, it appears that the three standards of 10 CFR 50.92(c) are satisfied. Therefore, the NRC staff proposes to determine that the amendment request involves no significant hazards consideration.

Local Public Document Room location: University of North Carolina at Wilmington, William Madison Randall Library, 601 S. College Road, Wilmington, North Carolina 28403-3297.

Attorney for licensee: William D. Johnson, Vice President and Senior Counsel, Carolina Power & Light Company, Post Office Box 1551, Raleigh, North Carolina 27602.

NRC Project Director: James E. Lyons.

Carolina Power & Light Company, et al.

Docket No. 50-400, Shearon Harris

Nuclear Power Plant, Unit 1, Wake and Chatham Counties, North Carolina

Date of amendment request: October 29, 1997.

Description of amendment request: Technical Specifications (TS) 3.8.1.1.a.3, 3.8.1.1.b.4, and 3.8.1.1.d.2 presently require a plant shutdown and declaring the redundant required feature

inoperable, when the required feature powered from the operable A.C. source is inoperable. The proposed change clarifies the intent of this TS to permit the applicable redundant required feature TS to direct a plant shutdown when required. The proposed amendment changes the existing TS 3.8.1.1.a.3, 3.8.1.1.b.4, and 3.8.1.1.d.2 to eliminate the separate requirement for plant shutdown and instead allows the applicable required redundant feature TS to direct the plant shutdown when required.

Basis for proposed no significant hazards consideration determination: As required by 10 CFR 50.91(a), the licensee has provided its analysis of the issue of no significant hazards consideration, which is presented below:

This change does not involve a significant hazards consideration for the following reasons:

1. The proposed amendment does not involve a significant increase in the probability or consequences of an accident previously evaluated.

The proposed amendment will not introduce any new equipment or require existing equipment to function different from that previously evaluated in the Final Safety Analysis Report (FSAR) or TS. The changes are consistent with NUREG-1431 and the Commission's Final Policy Statement on Technical Specification improvements.

Therefore, the proposed change does not involve a significant increase in the probability or consequences of an accident previously evaluated.

2. The proposed amendment does not create the possibility of a new or different kind of accident from any accident previously evaluated.

The proposed amendment will not introduce any new equipment or require existing equipment to function different from that previously evaluated in the Final Safety Analysis Report (FSAR) or TS. The changes are consistent with NUREG-1431 and the Commission's Final Policy Statement on Technical Specification improvements. The proposed amendment will not create any new accident scenarios, because the change does not introduce any new single failures, adverse equipment or material interactions, or release paths.

Therefore, the proposed change does not create the possibility of a new or different kind of accident from any accident previously evaluated.

3. The proposed amendment does not involve a significant reduction in the margin of safety.

Margin of safety for acceptable TS action times have been determined for each TS related system. The proposed change will not alter individual system TS action times. HNP (the Harris Nuclear Plant) proposes to change the requirement to shutdown after expiration of the completion time of an inoperable A.C. source concurrent with an inoperable required feature. Instead of requiring a

shutdown, the required feature on the inoperable A.C. source will be declared inoperable and the individual TS will be implemented.

In most cases with both redundant features inoperable, a plant shutdown will be required by TS 3.0.3. In the few instances where additional time is allowed by the individual TS for both redundant required features being inoperable, then an immediate plant shutdown would not be required. The allowed out of service time for loss of individual safety functions has been previously analyzed for HNP TS and NUREG-1431, Revision 1.

Therefore, the proposed change does not involve a significant reduction in the margin of safety.

The NRC staff has reviewed the licensee's analysis and, based on this review, it appears that the three standards of 10 CFR 50.92(c) are satisfied. Therefore, the NRC staff proposes to determine that the amendment request involves no significant hazards consideration.

Local Public Document Room location: Cameron Village Regional Library, 1930 Clark Avenue, Raleigh, North Carolina 27605.

Attorney for licensee: William D. Johnson, Vice President and Senior Counsel, Carolina Power & Light Company, Post Office Box 1551, Raleigh, North Carolina 27602.

NRC Project Director: James E. Lyons.

Florida Power and Light Company, et al.

Docket Nos. 50-335 and 50-389

St. Lucie Plant, Unit Nos. 1 and 2, St. Lucie County, Florida

Date of amendment request:

December 1, 1997.

Description of amendment request:

The proposed amendment revises the Unit 1 and Unit 2 Environmental Protection Plans (EPP) Section 4, "Environmental Conditions," and Section 5, "Administrative Procedures," to incorporate the proposed terms and conditions of the Incidental Take Statement included in the Biological Opinion issued by the National Marine Fisheries Service (NMFS) on February 7, 1997. The proposed amendment also revises the wording in the Unit 1 EPP to make it consistent with the Unit 2 EPP.

Basis for proposed no significant hazards consideration determination: As required by 10 CFR 50.91(a), the licensee has provided its analysis of the issue of no significant hazards consideration, which is presented below:

(1) Operation of the facility in accordance with the proposed amendment would not involve a significant increase in the

C/14

probability or consequences of an accident previously evaluated.

The changes are administrative in nature and would in no way affect the initial conditions, assumptions, or conclusions of the St. Lucie Unit 1 or Unit 2, accident analyses. In addition, the proposed changes would not affect the operation or performance of any equipment assumed in the accident analyses.

Based on the above information, we conclude that the proposed changes would not significantly increase the probability or consequences of an accident previously evaluated.

(2) Use of the modified specification would not create the possibility of a new or different kind of accident from any previously evaluated.

The changes are administrative in nature and would in no way impact or alter the configuration or operation of the facilities and would create no new modes of operation. We conclude that the proposed changes would not create the possibility of a new or different kind of accident.

(3) Use of the modified specification would not involve a significant reduction in a margin of safety.

As indicated in the discussion of Criterion 1, the changes are administrative in nature and would in no way affect plant or equipment operation or the accident analysis. We conclude that the proposed changes would not result in a significant reduction in a margin of safety.

The NRC staff has reviewed the licensee's analysis and, based on this review, it appears that the three standards of 50.92(c) are satisfied. Therefore, the NRC staff proposes to determine that the amendment request involves no significant hazards consideration.

Local Public Document Room
location: Indian River Community College Library, 3209 Virginia Avenue, Fort Pierce, Florida 34981-5596.

Attorney for licensee: M.S. Ross, Attorney, Florida Power & Light, P.O. Box 14000, Juno Beach, Florida 33408-0420.

NRC Project Director: Frederick J. Hebdon.

IES Utilities Inc.

[Docket No. 50-331]

Duane Arnold Energy Center, Linn County, Iowa

Date of amendment request: October 30, 1996.

Description of amendment request: The proposed amendment, included as part of the proposed conversion from current Technical Specifications (CTS) to improved Technical Specifications (ITS), would modify the Surveillance Requirements (SRs) recommended in NUREG-1433 LOC 3.5.1 by revising the combinations (Conditions C, D, G, and I of ITS 3.5.1) of emergency core cooling

systems/subsystems that may be out of service. The combinations are supported by the Duane Arnold Energy Center (DAEC) Loss-of-Coolant Accident (LOCA) analysis.

Condition C.

ITS 3.5.1 Action C establishes Required Actions and Completion Times for the situation when one core spray (CS) subsystem and one or two residual heat removal (RHR) pump(s) are inoperable. The proposed specification is less restrictive than CTS 3.5.A.4, which allows one RHR pump to be inoperable for 30 days, and CTS 3.5.A.5, which allows two RHR pumps (i.e., the low pressure coolant injection (LPCI) subsystem) to be inoperable for up to 7 days, provided the remaining RHR (i.e., LPCI) active components, both CS subsystems, the containment spray subsystem, and the diesel generators are verified to be operable. The CTS does not allow one CS subsystem and one or two RHR pump(s) to be inoperable at the same time. The LOCA analysis presented in NEDC-31310P, (Duane Arnold Energy Center SAFER/GESTR-LOCA Loss-of-Coolant Accident Analysis), indicates that an adequate level of protection is provided by the remaining operable ECCS subsystems. The accident analysis also demonstrates that in this condition, the peak clad temperature remains below the regulatory limit. However, another single failure may place the plant in a condition where adequate core cooling may not be available during a DBA-LOCA. Therefore, a Completion Time of 72 hours has been proposed to either restore the inoperable CS subsystem or the inoperable RHR pump(s).

Condition D

ITS 3.5.1 Action D establishes Required Actions and Completion Times for the situation when two CS subsystems are inoperable. The proposed specification is less restrictive than CTS 3.5.A.2, which allows only one CS subsystem to be inoperable. CTS 3.5.A.6 would require the plant to be in Hot Shutdown within 12 hours and Cold Shutdown within the following 24 hours if both CS subsystems were inoperable. With two CS subsystems inoperable, the LOCA analysis presented in NEDC-31310P, (Duane Arnold Energy Center SAFER/GESTR-LOCA Loss-of-Coolant Accident Analysis), indicates that the remaining operable low pressure ECCS subsystem consisting of LPCI with four RHR pumps operable (only 3 pumps required), provides adequate protection. However, another single failure may place the plant in a condition where

adequate core cooling may not be available during a Design Basis Accident LOCA. Therefore, a Completion Time of 72 hours has been proposed to restore one CS subsystem to operable status.

Condition G

ITS 3.5.1 Action G establishes Required Actions and Completion Times for the situation when HPCI and one RHR pump are inoperable. The proposed specification is less restrictive than CTS 3.5.D.2, which allows continued operation if HPCI is inoperable only if both CSs, LPCI, ADS, and RCIC are verified to be operable. While the LPCI subsystem is technically operable with only 3 of 4 RHR pumps operable, the CTS is currently interpreted by DAEC to require all 4 RHR pumps to be operable for the requirements of CTS 3.5.D.2 to be met, as a single RHR pump has more makeup capability than the HPCI System. Thus for mitigating small and intermediate break LOCAs, one LPCI pump, in combination with ADS, is more than adequate core cooling. The condition of when HPCI and one RHR pump are inoperable is bounded by the analysis in NEDC-31310P, Duane Arnold Energy Center, SAFER/GESTR-LOCA Loss-of-Coolant Accident Analysis. Since the remaining operable low pressure ECCS subsystems are more than capable of performing their intended function, and RCIC and ADS are Operable, the proposed Action G maintains LOCA analysis assumptions for ECCS Operability. The proposed ITS condition allows 7 days to restore the HPCI System or the RHR pump to operable status. The licensee considers the 7 day Completion Time reasonable in that the LOCA analysis demonstrates that in this condition, the peak clad temperature remains below the regulatory limit. The 7 day Completion Time also provides the benefit of potentially avoiding an unnecessary plant shutdown while the safety functions are still capable of being performed.

Condition I

ITS 3.5.1 Action I establishes Required Actions and Completion Times for the situation when HPCI and one ADS valve are inoperable. The proposed Specification is less restrictive than CTS 3.5.D.2, which allows continued operation if HPCI is inoperable only if both CSs, LPCI, ADS, and RCIC are verified to be operable. While ADS is capable of performing its design function with only 3 of 4 valves operable, per NEDC-31310P, Duane Arnold Energy Center, SAFER/GESTR-



SEA TURTLE MEETING

JANUARY 20, 1998

C/15

AGENDA

FIRST BIENNIAL SEA TURTLE MEETING

JANUARY 20, 1998

10:00 INTRODUCTION

10:30. UPDATES ON SEA TURTLE PROGRAM

**GENERAL SYSTEM ARRANGEMENT
1997 SEA TURTLE STATISTICS
BARRIER NET MAINTENANCE
TAPPROGE SYSTEM PERFORMANCE
STATE PERMIT CONDITIONS RENEWAL
DISCUSSION OF NRC LICENSE**

11:30 PROPOSED CHANGES TO TERMS AND CONDITIONS

**4.2.2.2(6) INTAKE WELL INSPECTION CHANGES
4.2.2.2(7) STUDY- HELD IN ABEYANCE
4.2.22(8) CAUSAL TO PLANT OPERATIONS & DEFINITION
4.2.2.2(10) CHANGES TO THE REPORTING REQUIREMENTS**

12:30 LUNCH & TOUR

2:00. STUDY

3:00 SUMMARY & CONCLUSIONS

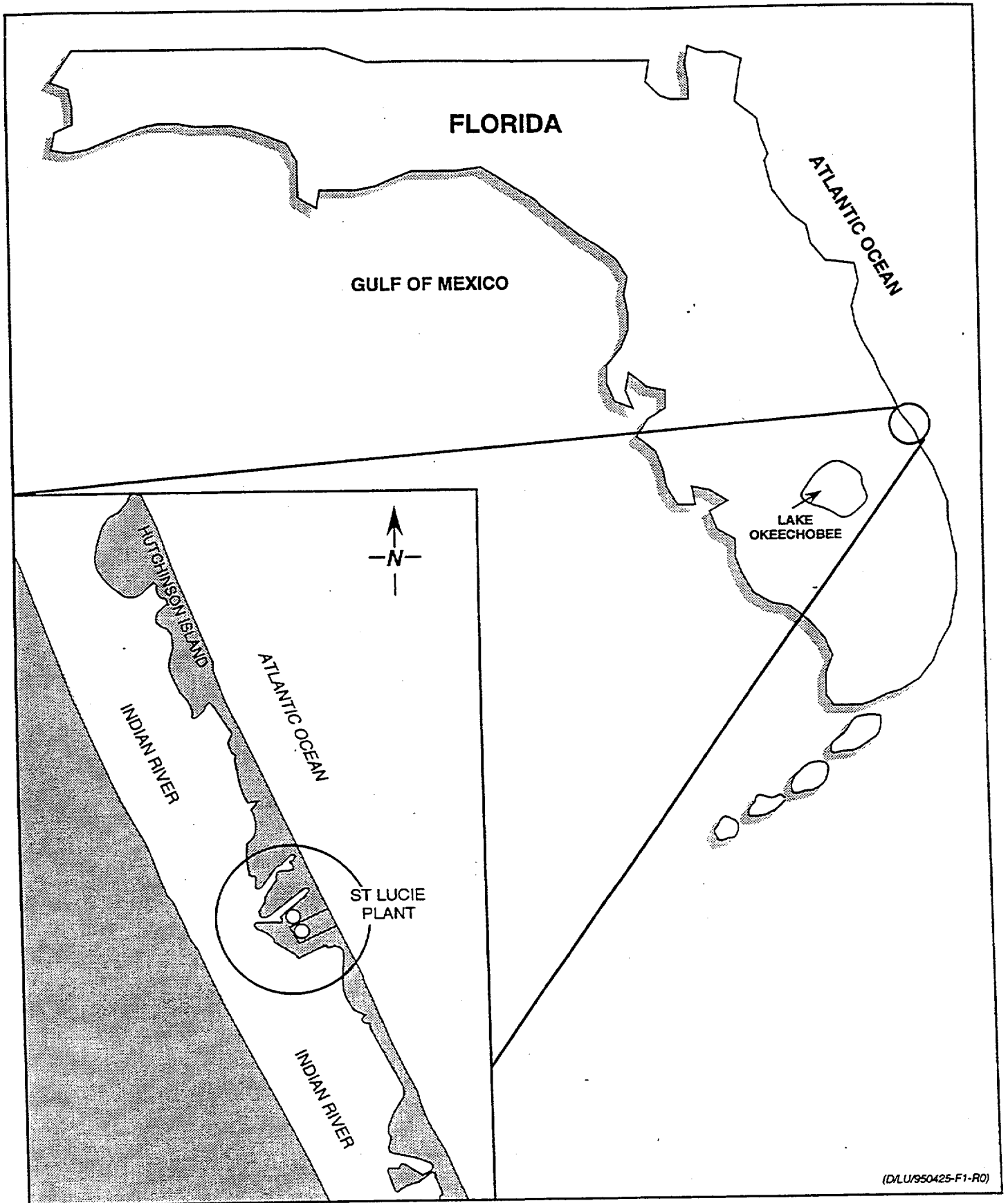


Figure 1. Location of the St. Lucie Plant on the east coast of Florida. The plant is located on South Hutchinson Island, a barrier island, and is about 7 miles (11.3 km) south of Ft. Pierce and about 7 miles (11.3 km) north of Stuart.

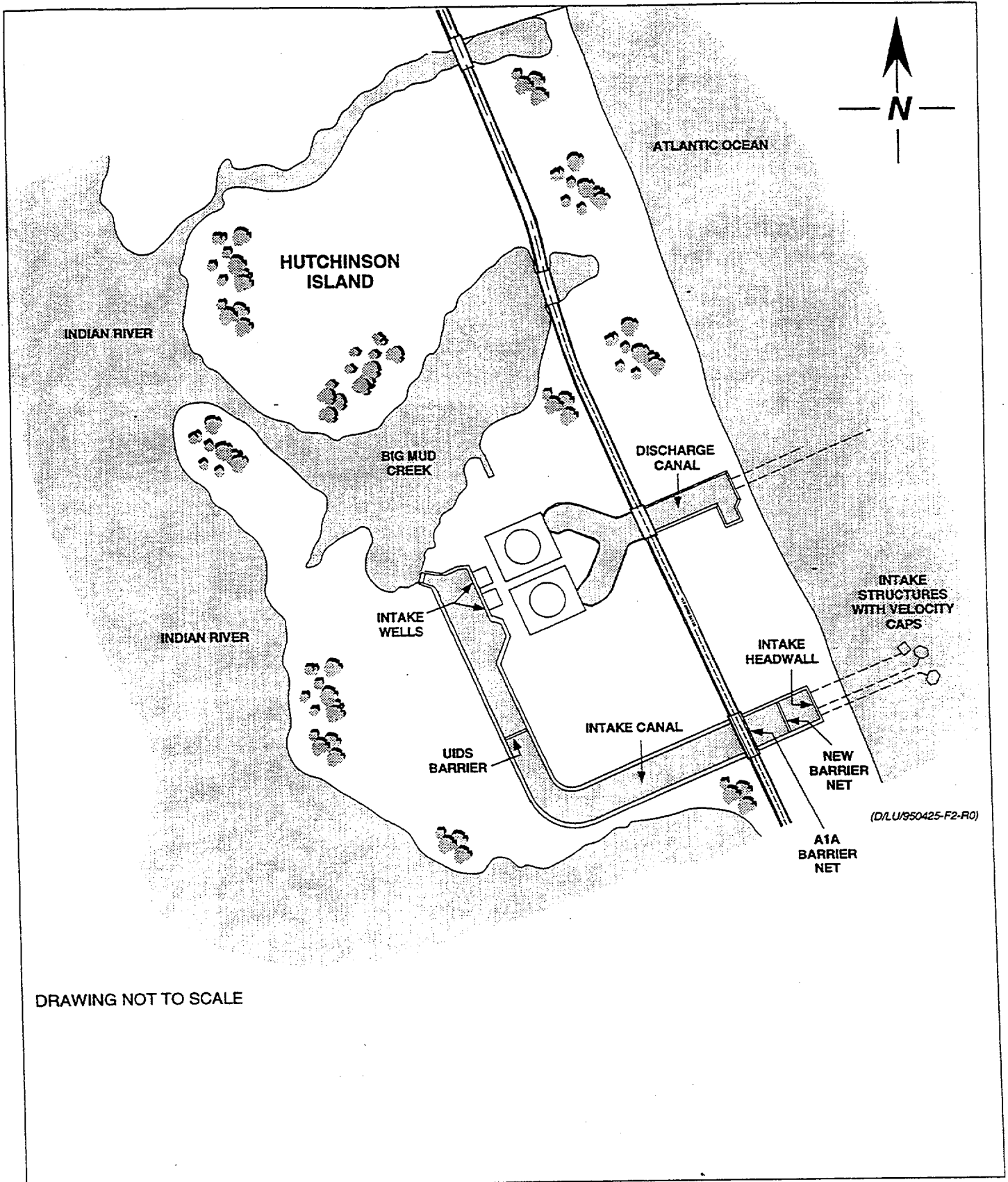
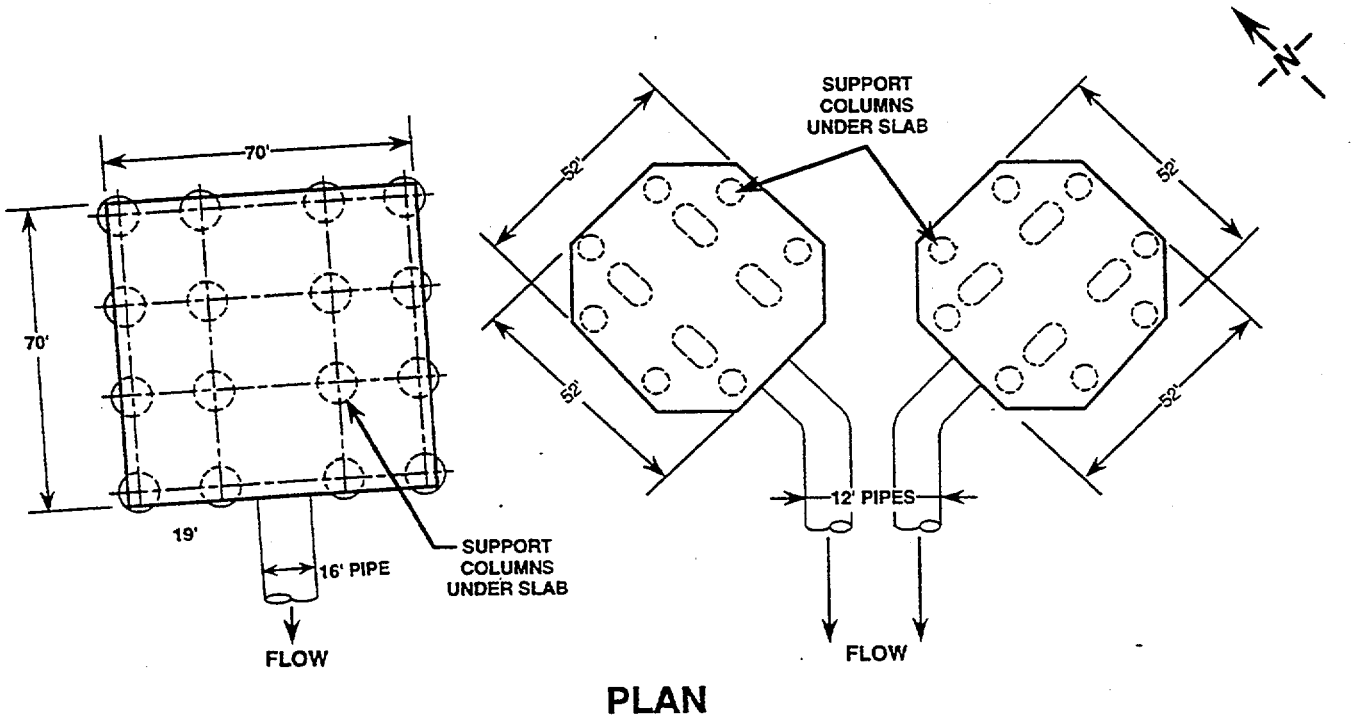


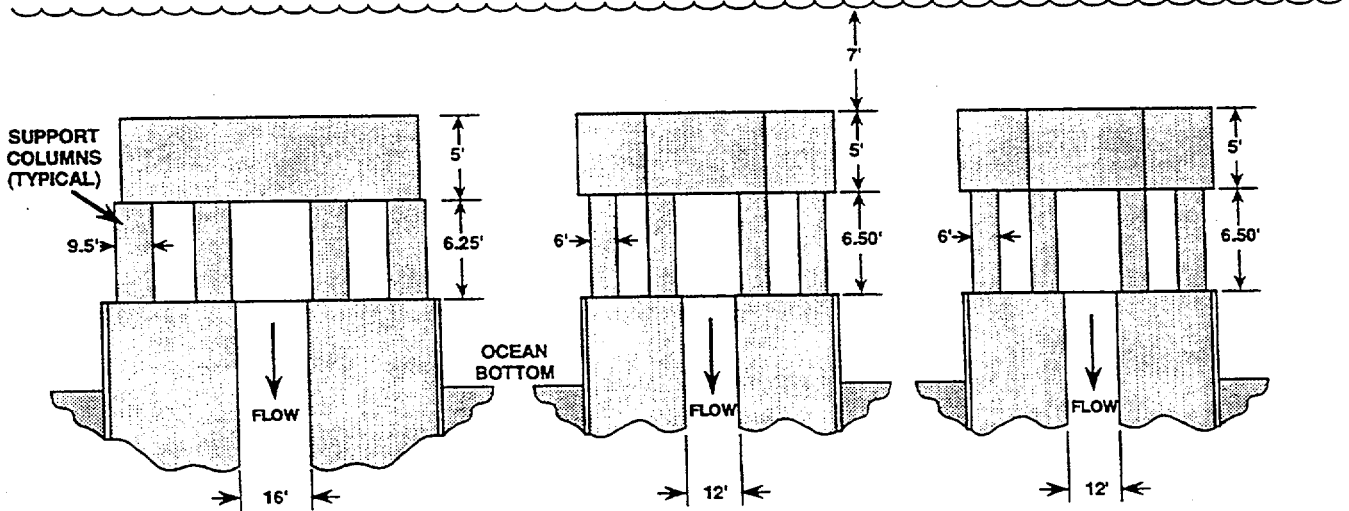
Figure 2. Design of the St. Lucie Plant showing the relationship between Units 1 and 2 and the configuration of the cooling water intake and discharge system with key features labeled.

ST. LUCIE PLANT INTAKE VELOCITY CAPS



PLAN

LOW TIDE OCEAN LEVEL



ELEVATION

DRAWING NOT TO SCALE

(DLU/950425-F3-R0)

Figure 3. Diagram of the intake structures located 1200 feet (365 m) offshore of the shoreline at the St. Lucie Plant.

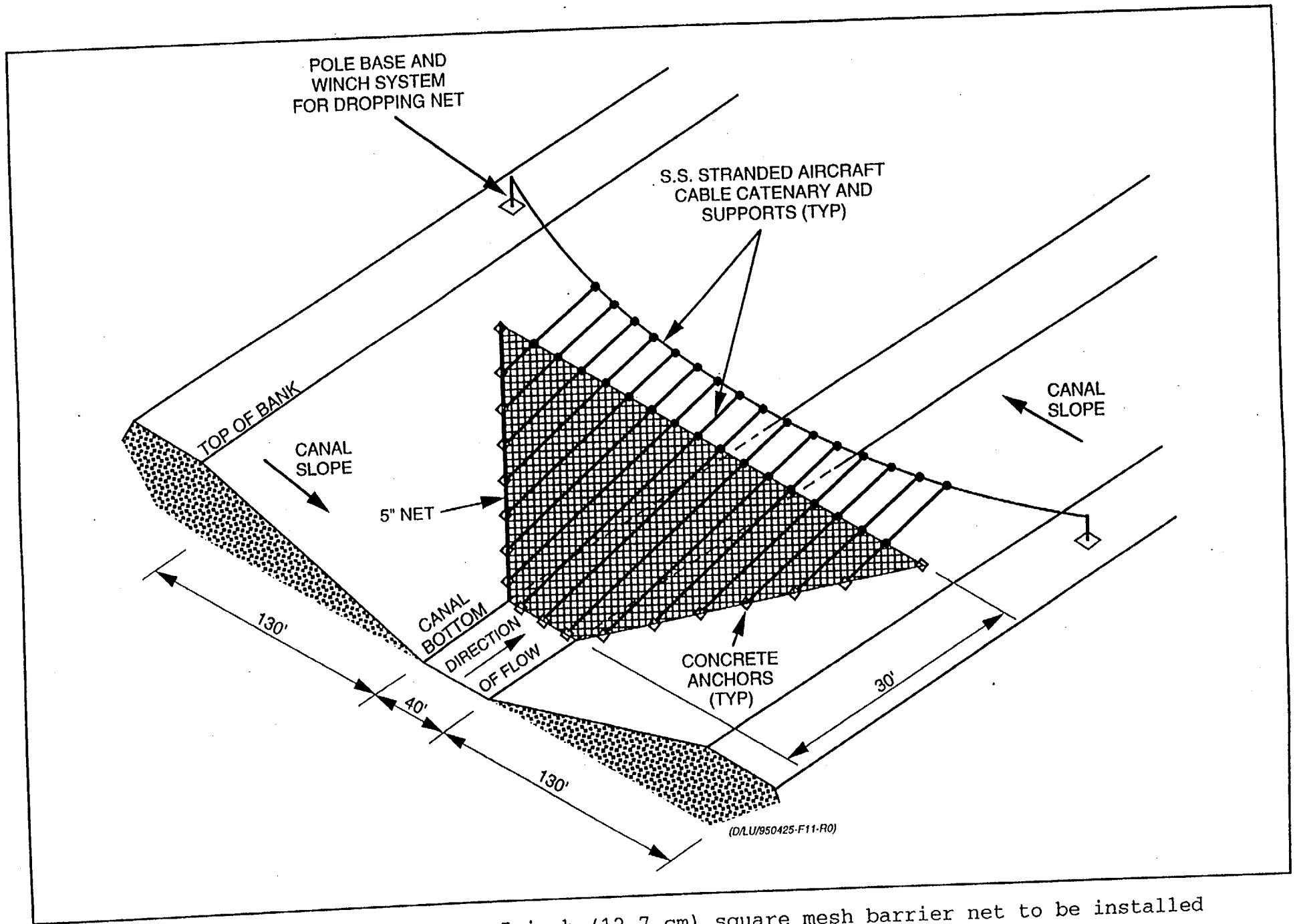


Figure 11. Conceptual design for a 5 inch (12.7 cm) square mesh barrier net to be installed in the intake canal of the St. Lucie Plant.

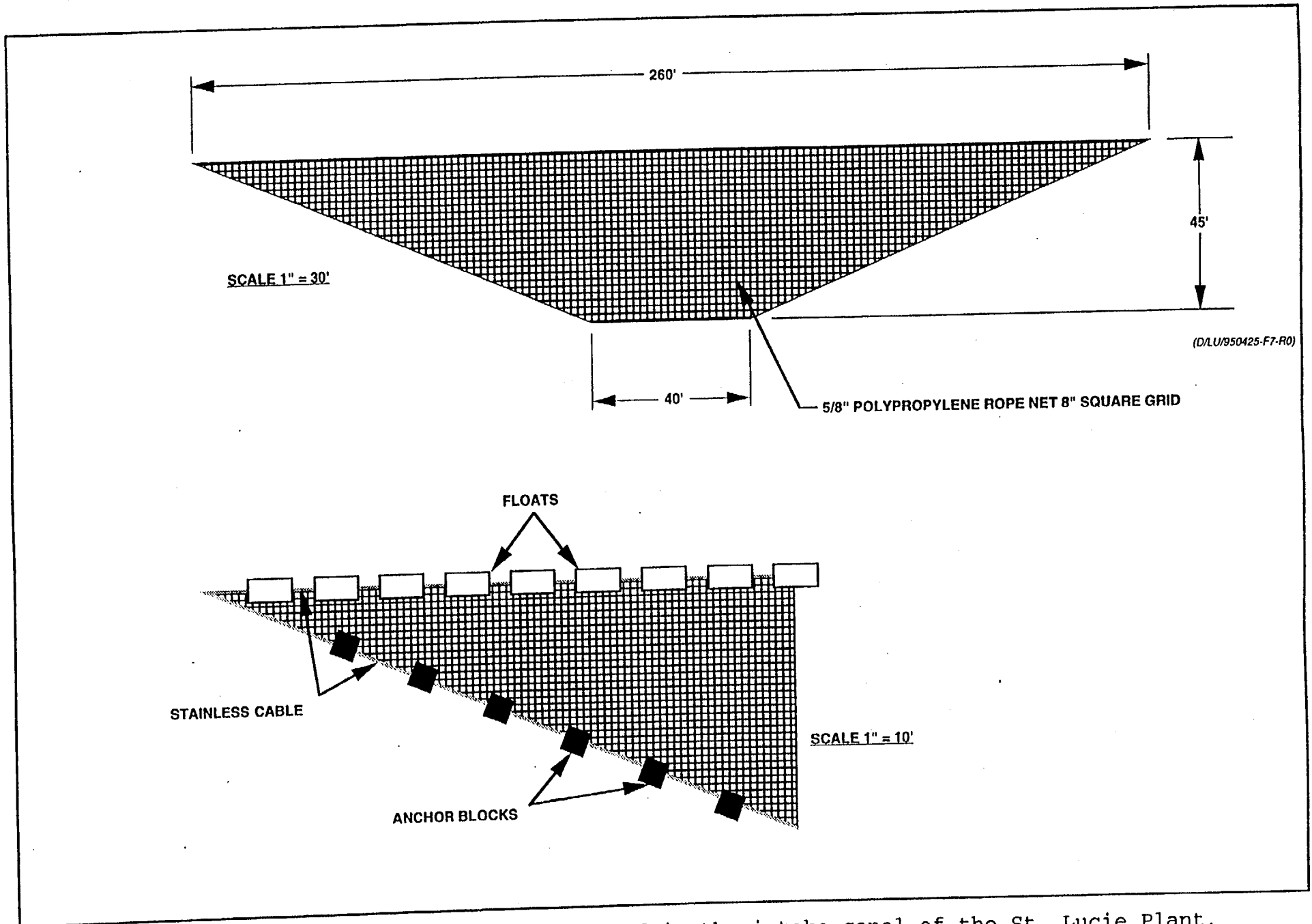


Figure 7. Diagram of the turtle barrier net used in the intake canal of the St. Lucie Plant. This net is located at the A1A bridge (see Figure 2)

**ST. LUCIE PLANT
UNDERWATER INTRUSION
DETECTION SYSTEM (TYPICAL SECTION)**

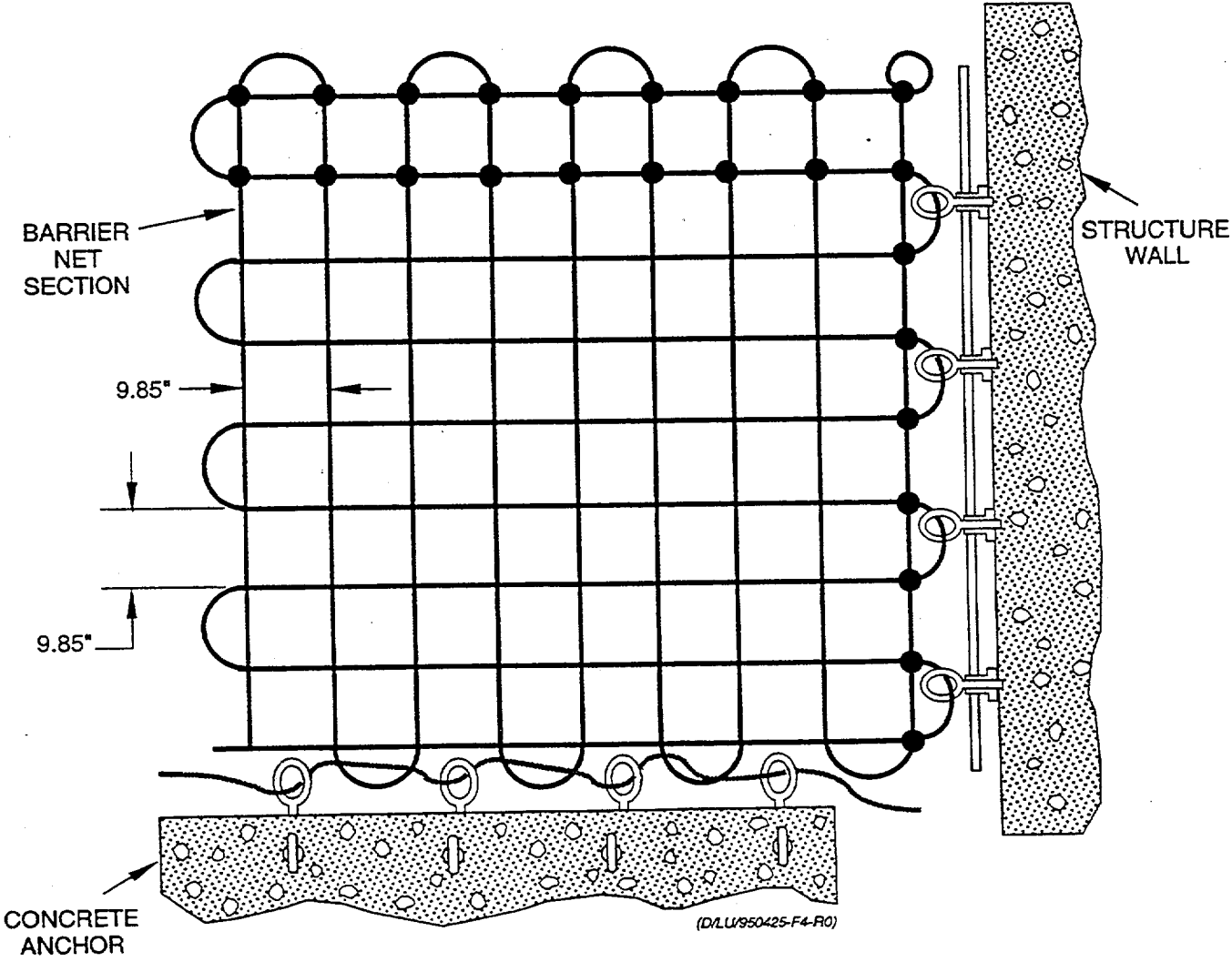
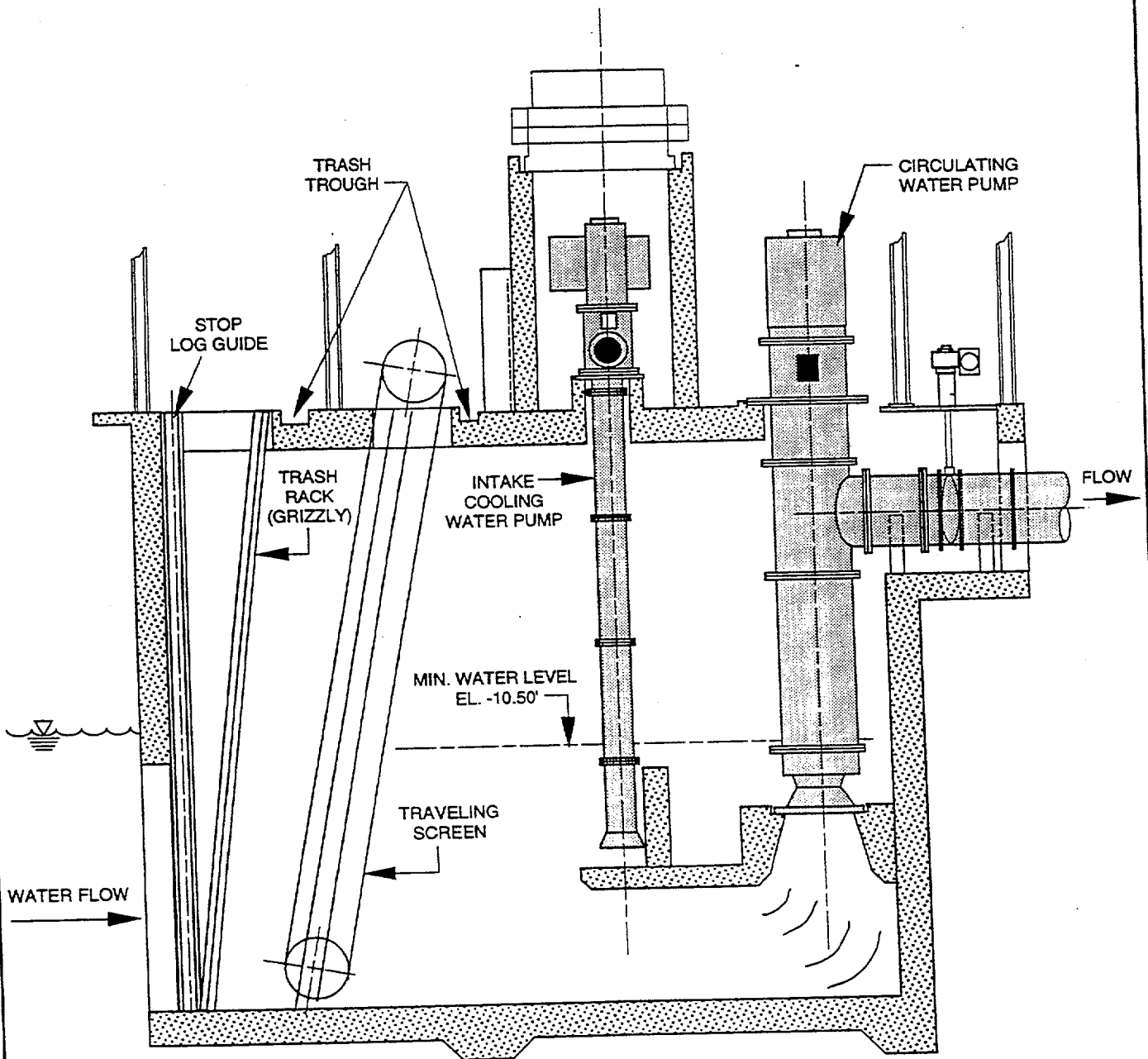


Figure 4. Diagram of the Underwater Intrusion Detection System at the St. Lucie Plant.

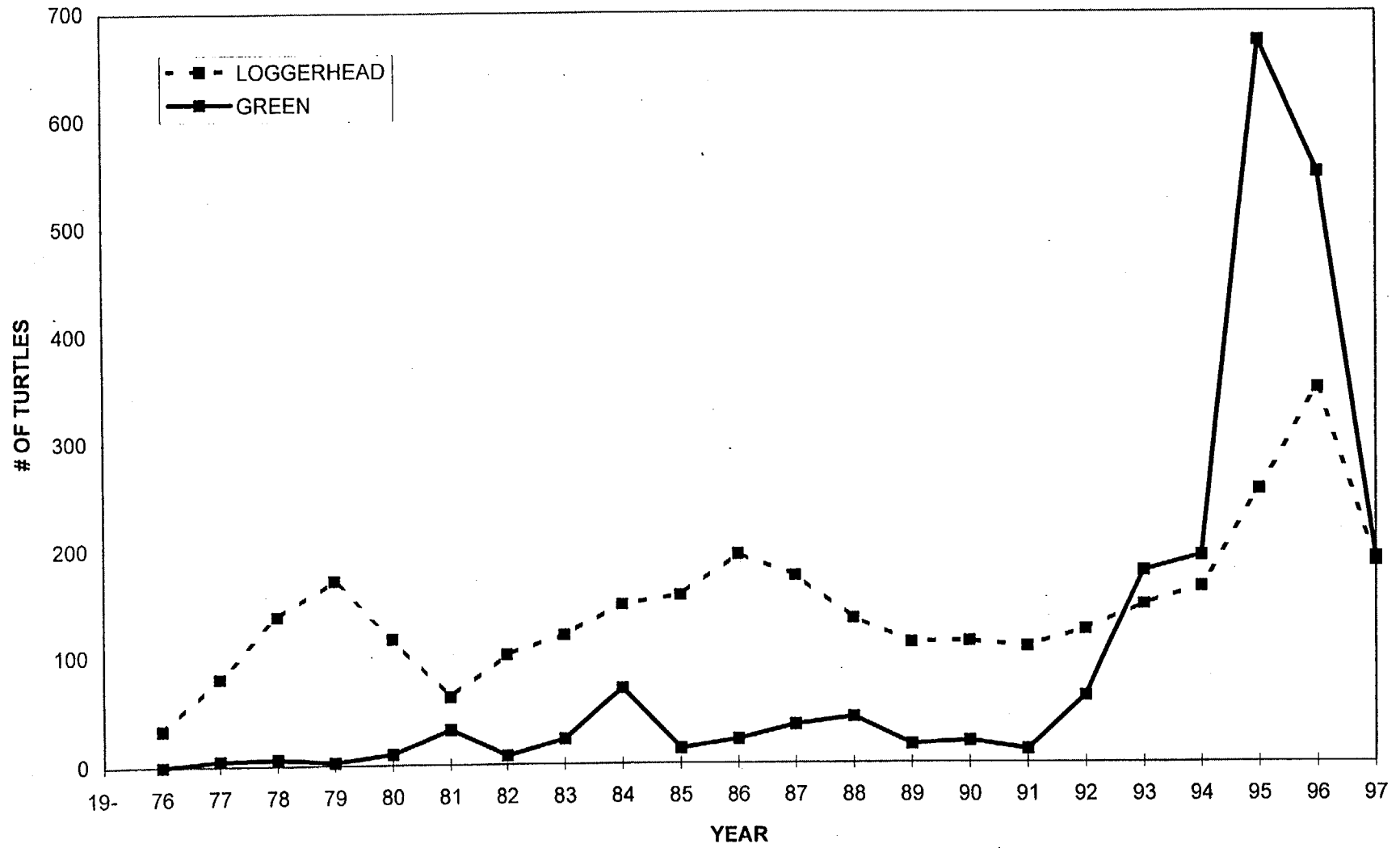
ST. LUCIE PLANT INTAKE WELL STRUCTURE (SIDE VIEW)



(D/LU/850425-F5-RO)

Figure 5. Diagram of an intake well at the St. Lucie Plant.

CANAL CAPTURES 1976 - 1997

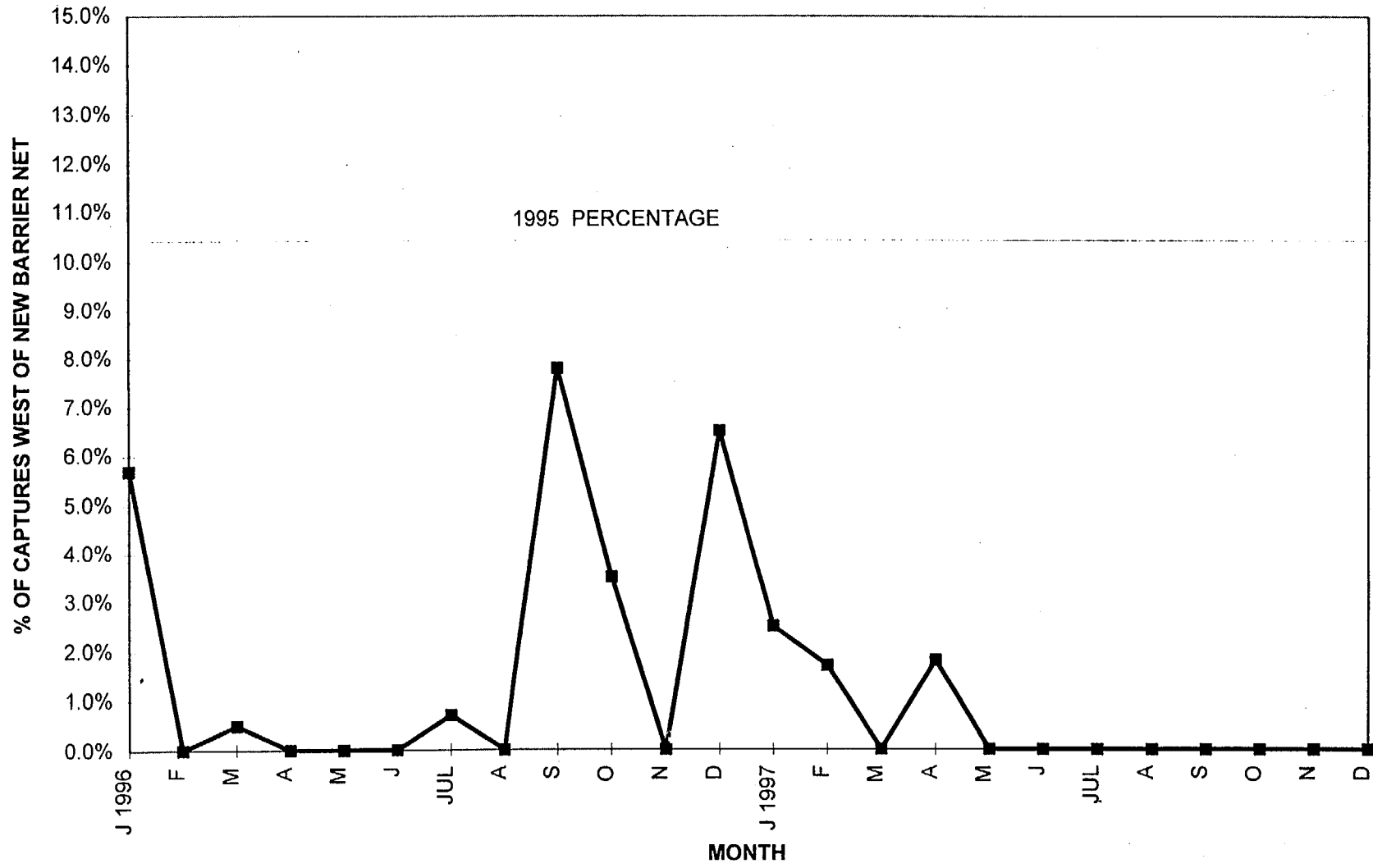


SEA TURTLES CAPTURED AT PSL - 1997

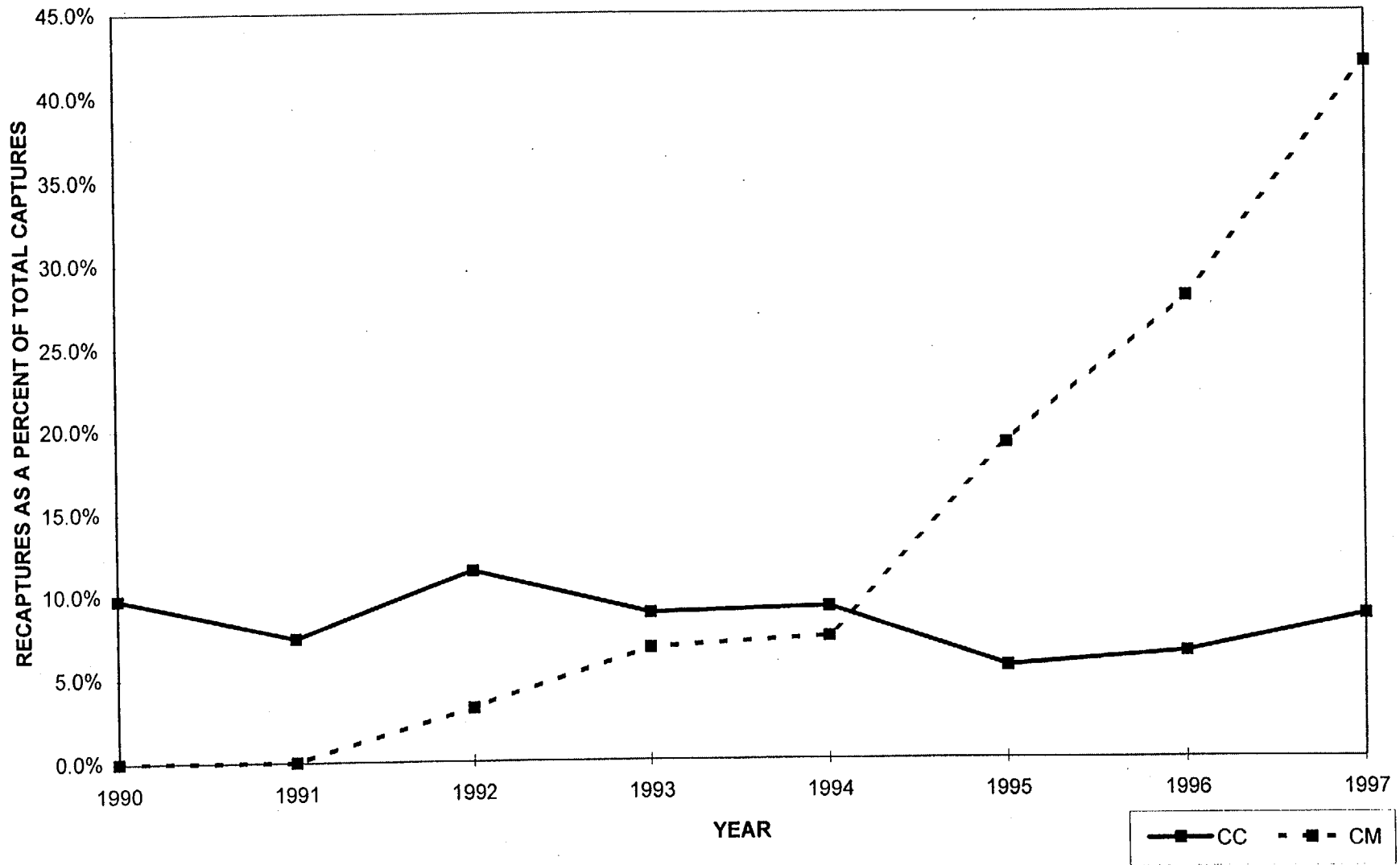
MONTH	GREEN	LOGGERHEAD	KEMPS RIDLEY	HAWKSBILL	LEATHERBACK	TOTAL
<i>Mortality Limit as per NMFS</i>	<i>6 or 1.5%, whichever is greater</i>	<i>2 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	
JANUARY	25 (1)	15	0	0	0	40 (1)
FEBRUARY	26	32	0	0	1	59
MARCH	16 (1*)	23	0	0	0	39 (1*)
APRIL	29	26	0	0	0	55
MAY	12	18	0	0	0	30
JUNE	30 (2)	42	0	0	0	72 (2)
JULY	9	9	0	0	0	18
AUGUST	12	6	0	0	0	18
SEPTEMBER	8	6	0	1	1	16
OCTOBER	13 (1*)	4	0	0	0	17 (1*)
NOVEMBER	4	1	0	0	0	5
DECEMBER	7	6	0	0	0	13
TOTAL TO DATE	191 (3) (2*)	188	0	1	2	382 (3) (2*)

() Mortalities
 (*) Probably moribund when entrained into canal

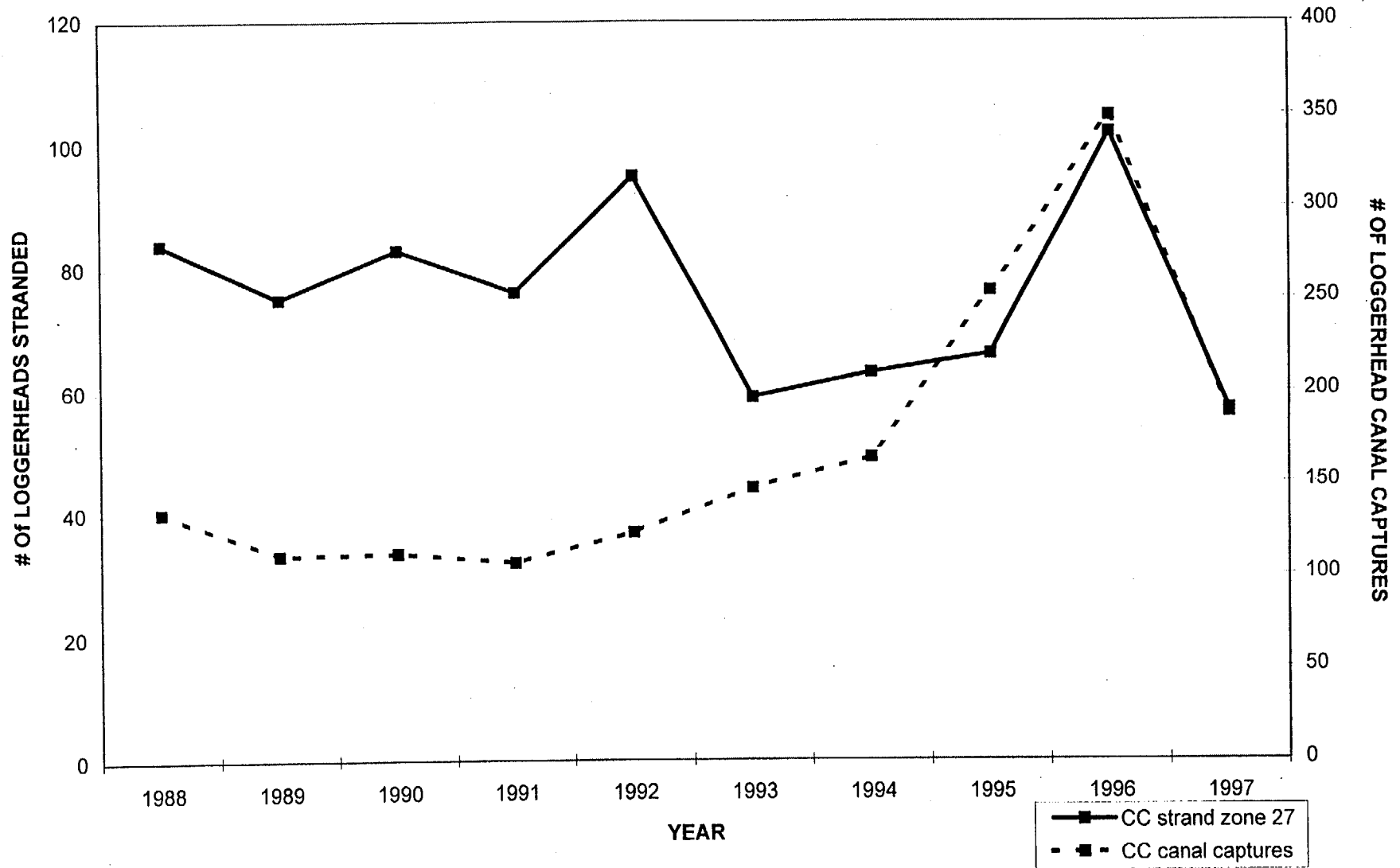
BARRIER NET PERFORMANCE



PERCENT RECAPTURES, INTAKE CANAL 1990 -1997

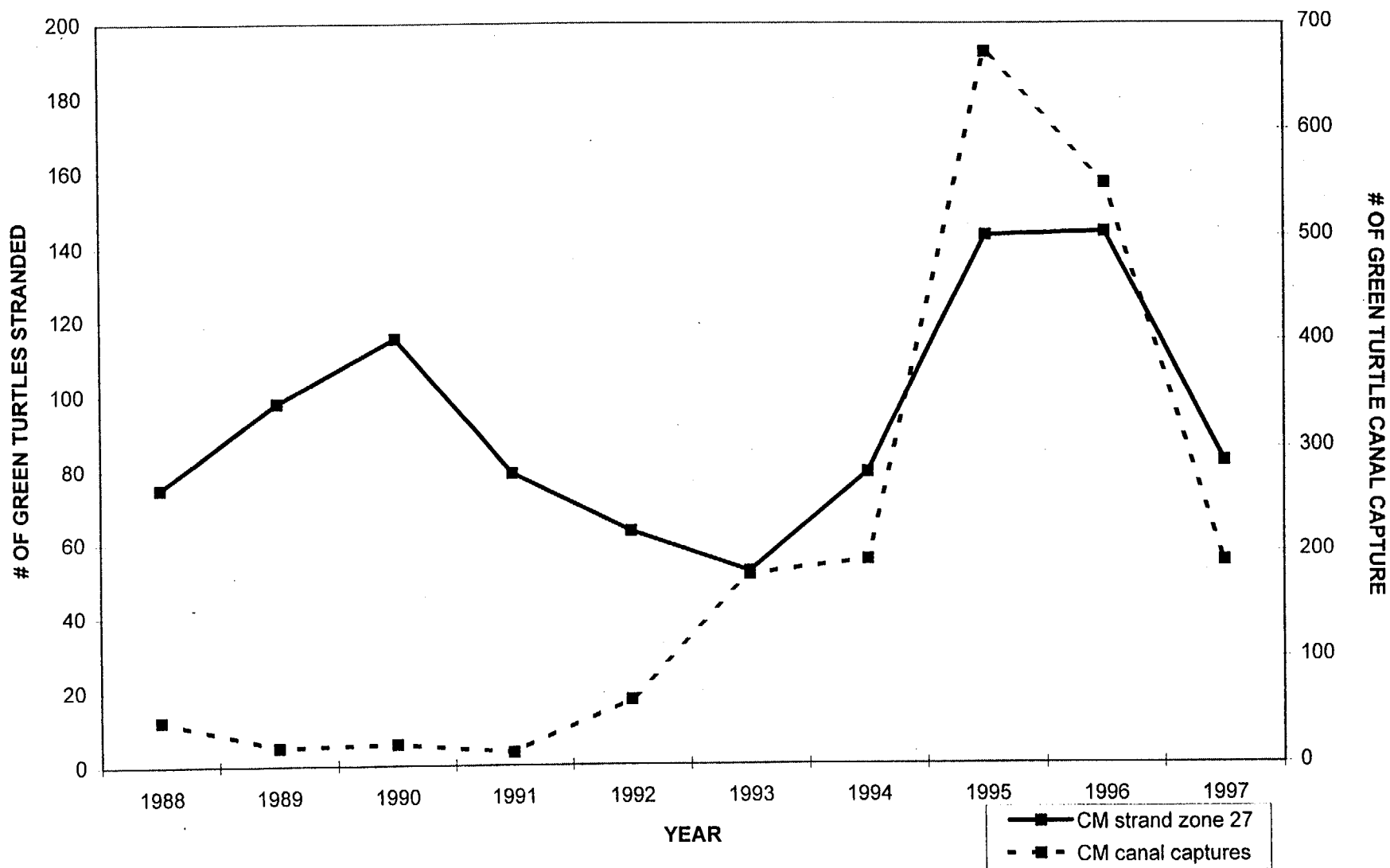


LOGGERHEAD STRANDING* AND CANAL CAPTURE DATA 1988 - 1997



* Florida Department of Environmental Protection, Florida Marine Research Institute, Sea Turtle Stranding and Salvage Network Database, January 9, 1998.

CM STRANDING* AND CANAL CAPTURE DATA 1988 - 1997



* Florida Department of Environmental Protection, Florida Marine Research Institute, Sea Turtle Stranding and Salvage Network Database, January 9, 1998.

1997 Turtle Net Inspection Activities

1. Daily

- A. Surface Inspection and Debris Removal**
- B. 20 Holes Repaired Along Top of Net**
- C. Inspection Performed by Turtle Capture Personnel**

2. Weekly

- A. Underwater Inspection**
- B. 25 Holes Repaired**
- C. Inspection Performed by Turtle Capture Personnel**

3. Monthly

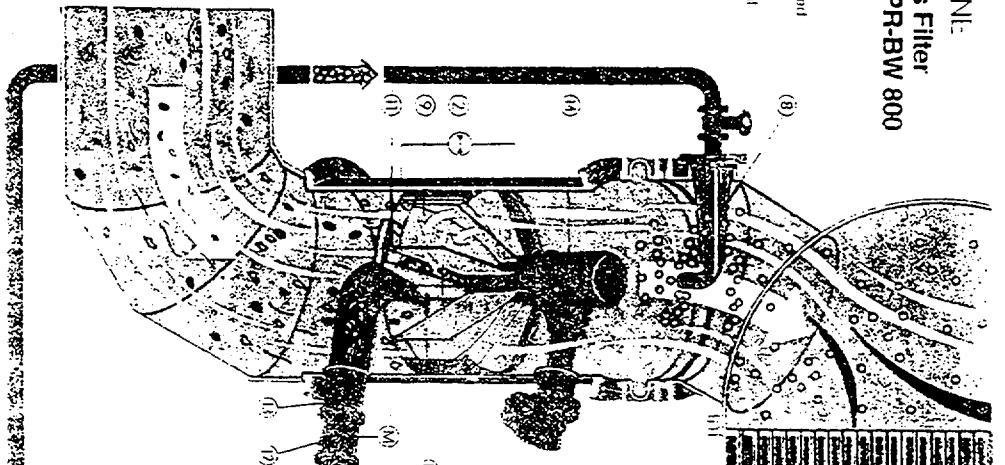
- A. Underwater Inspection**
- B. 53 Holes Repaired**
- C. Discovery of Sediment Buildup(Bottom of Net)**
- D. Algae Accumulation Discovered(Top and Middle of Net)**
- E. Land Utilization Inspection Program(LU-QI-11.0-46)**
- F. Performed by FPL Land Utilization Personnel**

4. Other

- A. Biannual Winch Inspection and Testing**
- B. Quarterly Cathodic Protection System Inspection**
- C. Sediment Dredging and Algae Removal**
 - a. Required 50 Man-hours of Underwater Work**
 - b. Performed by FPL Land Utilization Personnel**

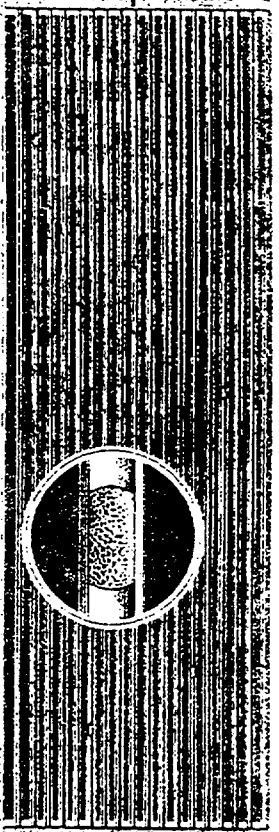
**ON LINE
Debris Filter
Type PR-BW 800**

Cleanout joints specifically engineered for the condenser design and tube material insure that every tube is kept clean.



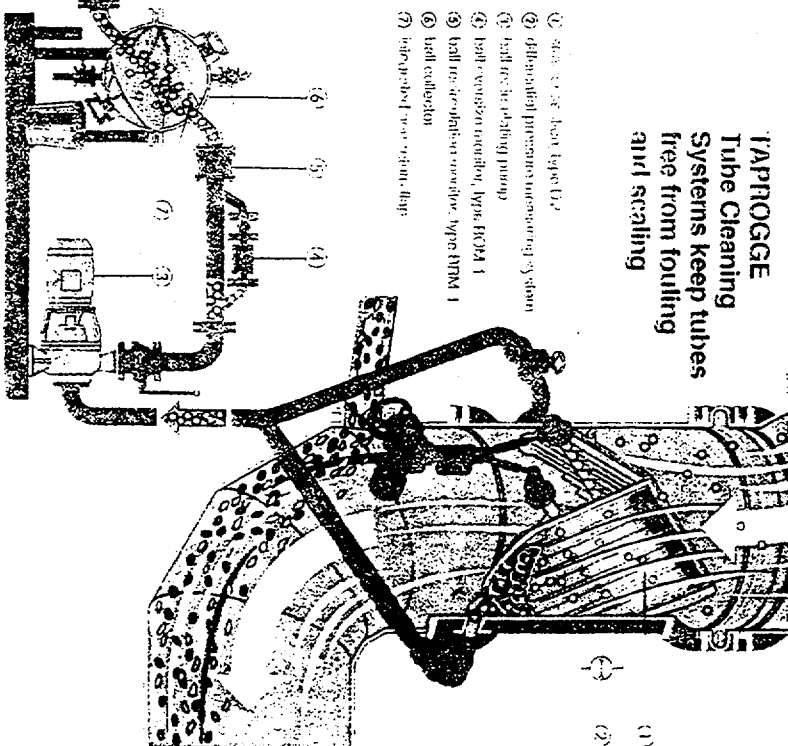
**TAPROGGE
Debris Filters
keep tubes and
tube sheets free
from clogging**

- ① built injection
- ② filter support
- ③ backwash valve
- ④ handle sort slip
- ⑤ debris discharge valve
- ⑥ debris discharge pipe
- ⑦ permanently indicated blow-off to clear blocking
- ⑧
- ⑨
- ⑩

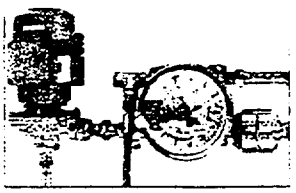


**TAPROGGE
Tube Cleaning
Systems keep tubes
free from fouling
and scaling**

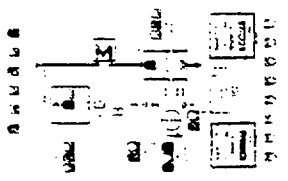
- ① steel ball cleaning system
- ② differential pressure monitoring system
- ③ ball for ball cleaning pump
- ④ ball re-circulation device, type BDM 1
- ⑤ ball re-circulation controller, type BDM 1
- ⑥ ball collector
- ⑦ ball re-circulation pump



**ON LINE
Tube Cleaning
System
Type D 2**

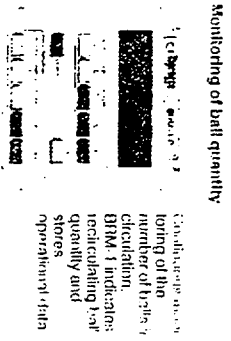


Differential pressure monitoring
Continuous monitoring of debris load of the filter by differential pressure measuring system with automatic control and flushing device, micro switch and level indication

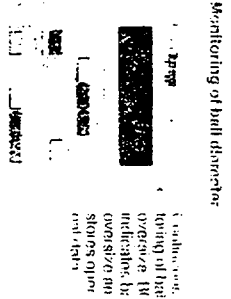


Programmable logic control
State of the art protection low voltage ball lamps and separate control and power sections
Detailed system manual with comprehensive identification

Ball collector, type C 70
Ball charge and removal through quick opening ports integrated non return flap prevents reverse flow
Ball recirculating pump
Mechanical seal and lubrication of friction surfaces



Monitoring of ball quantity
Continuous monitoring of the number of balls in circulation.
BDM 1 indicator: recirculating ball quantity and operational status



Monitoring of ball diameter
Continuous monitoring of ball diameter by indicator: BDM 2 indicator: ball diameter and status

1996 ST. LUCIE PLANT CTCS SUMMARY

MONTH	STRAINER BACK FLUSHES		ESTIMATED BALL LOSS		BALLS FOUND ON BEACH
	UNIT 1	UNIT 2	UNIT 1	UNIT 2	
January	-	0*	-	97*	0
February	-	0	-	63	0
March	-	1	-	63	0
April	-	4	-	63	0
May	-	0	-	1268	0
June	-	0	-	126	0
July	9**	12	9	131**	0
August	0	1	0	633	0
September	0	3	179	+17***	0
October	5	10	135	423	0
November	9	12	102	63	0
December	0	7	0	35	0
Total	23	50	425	2948	0

* System start-up on Unit 2.

** System start-up on Unit 1.

*** Net gain in inventory.

1997 ST. LUCIE PLANT CTCS SUMMARY

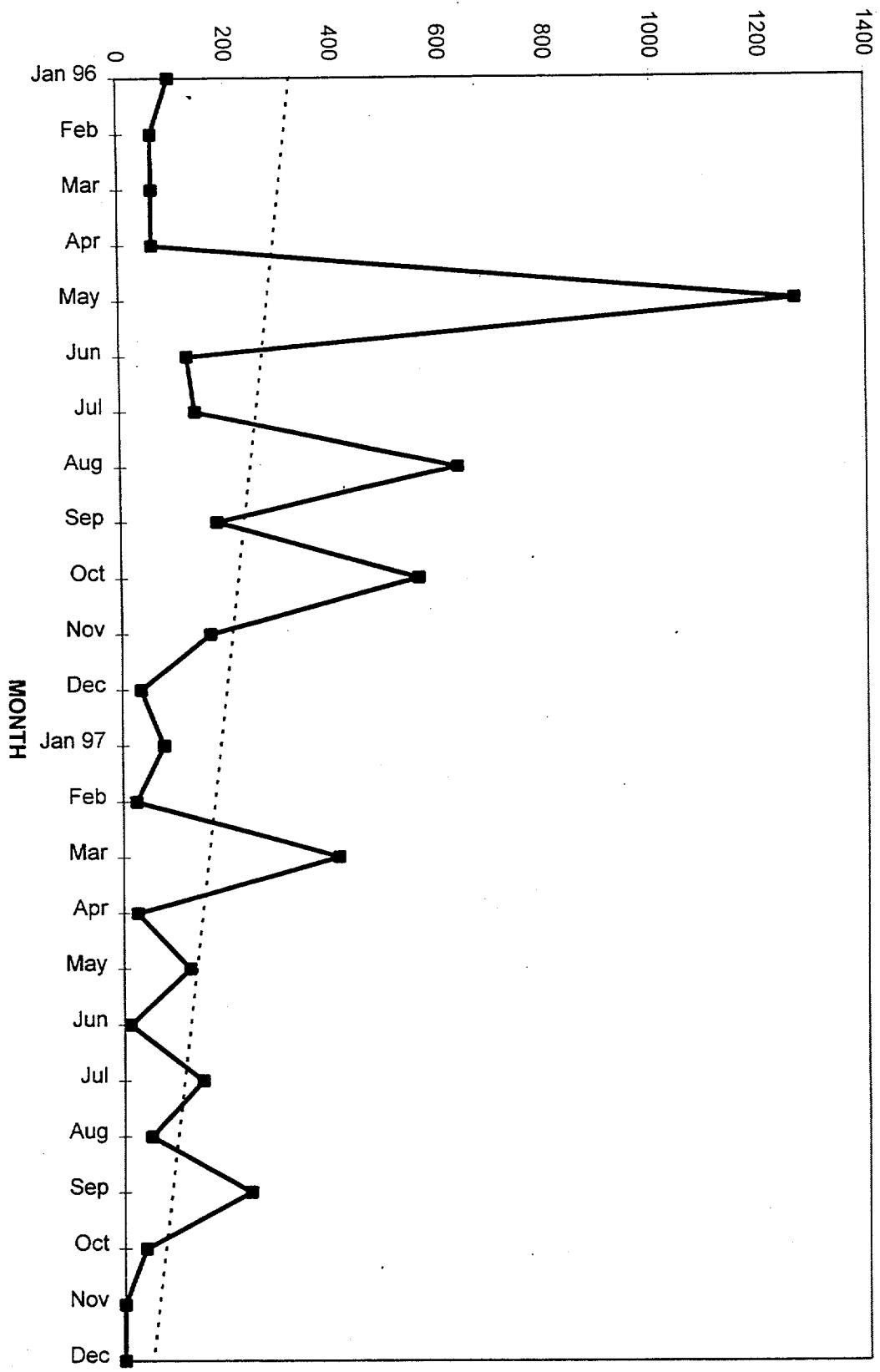
MONTH	STRAINER BACK FLUSHES		ESTIMATED BALL LOSS		BALLS FOUND ON BEACH
	UNIT 1	UNIT 2	UNIT 1	UNIT 2	
January	4	5	19	58	0
February	4	6	0	25	0
March	4	2	355	51	0
April	4	6*	23	3*	0
May	4	0	40	83	0
June	4	0	12	0	0
July	9	12	57	90	0
August	5	9	12	39	0
September	9	8	135	101	0
October	6**	8	11**	29	0
November	0	13	0	+38***	0
December	0	10	0	+63***	0
Total	53	79	664	378	0

* Unit 2 system shutdown during refueling, 4/11 - 5/28.

** Unit 1 system shutdown during refueling, 10/17 through the end of the year.

*** Net gain in inventory.

ESTIMATED BALL LOSS



ESTIMATED TOTAL TAPROGGE BALL LOSS 1996 - 1997

PROPOSED CHANGES

TO THE

TERMS AND CONDITIONS

EPP Section 4.2.2.2(6)

Intake Well Inspection Frequency

Implements ITS Condition (6) requires visual checks of the gratings at each intake well for sea turtles at least eight times in 24-hours. This was the frequency specified in our Biological Assessment performed at the time when there were a relatively high number of mortalities found in the intake wells

The FDEP permit is renewed annually. In the 1997 and earlier FDEP Permits the inspection was required 4 times in 24-hours. The condition would also be evaluated, upon request, if after a period of six months following the installation of the new 5-inch barrier net no turtles were recovered from the intake wells. No turtles have been recovered from the intake wells since April 1997.

The application for renewal of the FDEP requests the removal of the condition for intake well inspection based on the performance of the 5-inch barrier net.

EPP Section 4.2.2.2(7) Study at Intake Structure

ITS Condition 7 requires the video study at the Ocean Intakes. EPP Section 4.2.2.2(7) states the study is deferred based on NRC consultation with NMFS. FPL was notified on October 6, 1997 that the proposed study requires further review by FPL, NRC, and NMFS. It will be discussed as part of the later agenda item.

EPP 4.2.2.2(8)

Causal to Plant Operation Definition

ITS Condition 8 states FPL to continue to participate in the STSSN, under proper permits and authority. This condition stated as a point of clarification that stranded sea turtles will not normally be counted against the authorized level of incidental take.

FPL proposed to clarify this Condition such that a stranding either on the beach or in the intake canal due to injury or illness not caused by plant operation is not counted against the authorized level of lethal take in Section 4.2.2.1.

A Stranding either on the beach or in the intake canal is reported to the FDEP. In addition FPL will request that FDEP concur with its determination if not causal to plant operation. The proposed rational for determining whether a sea turtle mortality in the intake canal is causal to plant operation or an intake canal stranding, will be incorporated into plant procedures.

In addition, NMFS will be receiving the monthly sea turtle report required by condition 10. This report will inform NMFS of all mortalities either casual to plant operation or a stranding in the intake canal.

PROPOSED RATIONALE FOR THE DETERMINATION OF SEA TURTLE MORTALITIES CAUSAL TO PLANT OPERATION

The following criteria are proposed to allow the differentiation of sea turtle mortalities occurring in the intake canal system into the categories of: 1) mortalities causal to plant operation, and 2) mortalities not causal to plant operation (intake canal strandings). In cases where St. Lucie plant biologists determine that a mortality is not causal to plant operation, the concurrence of FDEP sea turtle biologists will be solicited.

MORTALITIES CAUSAL TO PLANT OPERATION

In general, sea turtle mortalities occurring in the intake canal system will be deemed to be causal to plant operation if any of the following criteria are met:

- 1) Any turtle, regardless of condition, found dead entangled in a capture net.
- 2) Any turtle, regardless of condition, found dead clearly entangled below the surface of the water on the barrier nets or entangled in debris attached to the bottom of any part of the intake canal system.
- 3) Any fresh dead turtle not meeting the criteria below for intake canal strandings found free-floating in the canal or impinged on the barrier nets at or below the water surface.

MORTALITIES NOT CAUSAL TO PLANT OPERATION (INTAKE CANAL STRANDINGS)

In general, sea turtle mortalities occurring in the intake canal system will be deemed to be not causal to plant operation if any of the following criteria are met:

- 1) Any fresh dead turtle found free-floating in the intake canal or impinged upon, but not entangled in, the barrier nets with extensive injuries clearly sustained outside the intake canal system(e.g. boat collision) such that a live turtle in that condition would have been unlikely to survive and would have been euthanized at a rehabilitation facility.
- 2) Any fresh dead turtle found free-floating in the intake canal or impinged upon, but not entangled in, the barrier nets in such condition due to disease or other illness (e.g. fibropapilloma) that a live turtle in that condition would have been unlikely to survive and would have been euthanized at a rehabilitation facility.
- 3) Any extremely decomposed carcass or partial remains found free-floating in the intake canal or impinged upon the barrier nets in a location where the daily surveillance of the canal is sufficient (east of the primary barrier net) that a fresh dead or moribund turtle could not have escaped notice long enough to become severely decomposed, and it is reasonable to presume the carcass or remains were entrained into the canal in that condition.

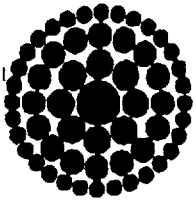
EPP Section 4.2.2.2(10)

Changes to the Reporting Requirements

FPL proposes to revise the Reporting requirements of ITS Condition 10. FPL has been discussing the usefulness of the required report for the Taprogge condenser tube cleaning system operation and any sponge ball loss at St. Lucie to the FDEP and NMFS. In addition, the available information on the barrier net inspections and maintenance is reported monthly. The Annual Report also discusses these same issues.

These reports are a small administrative burden on FPL and limited usefulness to the FDEP. Discussions between FPL and FDEP have focussed on the type of information and frequency of submitting the reports.

FPL proposes that the reports be eliminated and the topics discussed in the Annual Report. In addition, FPL proposes that plant administrative procedures will include guidance that a significant ball loss would be considered an unusual environmental event under EPP Section 4.1. Accordingly, FPL will make a 72-hour report and a 30-day written report.



Florida Power

CORPORATION
Crystal River Unit 3
Docket No. 89-302
Operating License No. DPR-72

May 1, 1998
3F0598-03

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Report on Significant Environmental Event

- References:
1. CR-3 Environmental Protection Plan
 2. Endangered Species Act of 1973

Dear Sir:

The attached report is being submitted to the NRC in accordance with the Crystal River Unit 3 (CR-3) Operating License No. DPR-72, Appendix B, Part II, Environmental Protection Plan (EPP), Section 4.1. On April 1, 1998, Florida Power Corporation (FPC) reported the mortality of an endangered species sea turtle. FPC promptly made the report via the Emergency Notification System through event number 34007. FPC also made subsequent reports under this event number for discoveries of other sea turtle mortalities.

Sincerely,

Robert E. Grazio

Robert E. Grazio
Director, Nuclear Regulatory Affairs

REG/smg
Attachment

xc: Regional Administrator, Region II
Senior Resident Inspector
NRR Project Manager

Ch

U.S. Nuclear Regulatory Commission
3F0598-03

Attachment
Page 1 of 2

DESCRIPTION AND ANALYSIS

Kemp's Ridley sea turtles, an endangered species under the Endangered Species Act, are known to inhabit the Gulf of Mexico. In February 1998, Florida Power Corporation (FPC) began observing an influx of Kemp's Ridley sea turtles in the Crystal River Unit 3 (CR-3) nuclear plant intake canal. Prior to February 1998, FPC had infrequently seen Kemp's Ridley sea turtles at its Crystal River site. Since February, FPC has removed 35 live sea turtles, mostly Kemp's Ridley, from its intake canal and CR-3 intake structure bar racks. Eleven mortalities have been discovered in the intake canal and intake basin.

PROBABLE CAUSE

The probable cause of this sudden increase in the numbers of turtles in the intake basin is not known. Possible contributing factors include temporal changes in sea turtle migration patterns, changes in prey abundance, and the indirect effects of salinity and other water quality parameters.

The probable cause of the sea turtle mortalities is also not known. Sea turtle mortalities are attributed to both natural and man-induced factors. Natural causes can include disease, genetics, predators and aging. Man-induced causes can include fish trawls, boat collisions, pollution, and recently, drowning against the CR-3 intake structure bar racks. The exact causes of death of the sea turtles at Crystal River appear varied and are usually difficult to determine. Four of the mortalities, however, may have been drownings against the CR-3 intake structure bar racks.

ACTIONS TAKEN TO CORRECT THE EVENT

When FPC began finding sea turtles in February and March 1998, FPC contacted and followed protective measures recommended by the Florida Marine Patrol. Later, the Florida Marine Research Institute (FMRI) provided recommendations. Both are agencies of the Florida Department of Environmental Protection. On March 27, 1998, when it became apparent that the sea turtle influx was much higher than normal, CR-3 instituted additional measures described below to protect the sea turtles.

Initial corrective actions taken to prevent mortalities included the establishment of a 24 hour observation and rescue program and the prompt notification of FMRI and the NRC.

Further actions taken included:

- preparing turtle rescue and handling guidance
- training of turtle watch observers
- hiring of experts to advise on turtle behaviors and characteristics
- hiring of experts to conduct netting of turtles for removal from the intake canal
- expediting cleaning of Unit 3 bar racks to remove food source and reduce water velocities

U.S. Nuclear Regulatory Commission
3F0598-03

Attachment
Page 2 of 2

- expediting cleaning of Unit 1 and Unit 2 bar racks to remove food source and reduce water velocities
- making routine underwater inspections of intake bar racks
- filing applications for turtle handling permit and turtle tagging permit
- meeting with FMRI to assess situation, review procedures, and obtain recommendations
- meeting with National Marine Fisheries Service (NMFS) to assess situation, review procedures, and obtain recommendations

CORRECTIVE ACTIONS TO PREVENT RECURRENCE

In addition to the actions noted above, FPC is continuing to monitor the sea turtle presence at the CR-3 intake canal and is evaluating any necessary future protective measures. FPC is continuing the observation and rescue program until it is clear the turtles have left the intake canal. Although this may be a unique one time event, FPC is developing a long-term strategy to assure continued protection of the sea turtles. This strategy will be discussed with the FMRI, NMFS, and the NRC in a meeting on May 13, 1998. Depending on the results of FPC's ongoing assessment, potential actions may include:

- a long-term program which provides for early detection and mitigation of potential mortalities
- increasing the frequency and timing of cleaning bar racks
- revising the turtle netting protocol with new netting methods

OTHER AGENCIES NOTIFIED AND PRELIMINARY RESPONSES

FPC initially contacted the Florida Marine Patrol, and later the FMRI, for direction on how to handle live turtles and mortalities. A meeting was held with FMRI at CR-3 on April 1, 1998. The FMRI representatives toured the intake basin area, reviewed turtle handling guidance and picked up rescued turtles for evaluation. FMRI recommended that FPC obtain turtle handling permits and turtle tagging permits under State regulations. FPC has applied for these permits. FMRI developed plans to perform necropsies to determine potential causes of death and/or illness.

FPC also contacted the NMFS, which indicated its desire to allow the FMRI to provide CR-3 with the initial turtle handling guidance. FPC invited the NMFS to an on-site meeting to assess the situation. This meeting was held April 23, 1998.

From: <George_Madden@fpl.com>
To: OWFN_DO.owf4_po(BCG),GATED.nrcsmtp("David.Bernhart...
Date: Mon, Jan 11, 1999 10:26 AM
Subject: 1998 TURTLE CAPTURES

Bill Gleaves

~~Rob~~
~~Cynthia~~
FYI

FYI

GRM

----- Forwarded by George Madden/Psi/Nuclear/FplNuc on
01/11/99 10:25 AM -----

Nick Whiting
01/08/99 07:33 AM

*Pls return
Claudia*

Sent by: Nick Whiting

To: Steve Marchigiano/Psi/Nuclear/FplNuc@FplNuc, George
Madden/Psi/Nuclear/FplNuc@FplNuc, Jonathan
Gorham/Psi/Nuclear/FplNuc@FplNuc, Stacy
Foster/Psi/Nuclear/FplNuc@FplNuc, John
Toebe/Psi/Nuclear/FplNuc@FplNuc, Michael
Bresette/Psi/Nuclear/FplNuc@FplNuc, Dave
Singewald/Psi/Nuclear/FplNuc@FplNuc, Winifred Perkins@FPL

cc:
Subject: 1998 TURTLE CAPTURES

Below please find summary of 1998 sea turtle captures in the St. Lucie
Plant intake canal. Percentage-wise, the lowest mortality rate in the
twenty-two year history of the program!

Nick

(See attached file: Turtstat.xls)

C/17

MONTH	GREEN	LOGGERHEAD	KEMPS RIDLEY	HAWKSBILL	LEATHERBACK	TOTAL
<i>Mortality Limit as per NMFS</i>	<i>3 or 1.5%, whichever is greater</i>	<i>2 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	<i>1 or 1.5%, whichever is greater</i>	
JANUARY	25	36	0	0	0	61
FEBRUARY	58	28	2	0	0	88
MARCH	30	60	0	0	0	90
APRIL	20	47	0	0	0	67
MAY	35	29	0	1	0	65
JUNE	16	26	0	0	1	43
JULY	7	57	0	0	0	64
AUGUST	22	44	0	0	0	66
SEPTEMBER	10	17	0	0	0	27
OCTOBER	27	25(1)	0	1	0	53(1)
NOVEMBER	10	10	0	0	0	20
DECEMBER	9	13	0	0	0	22
TOTAL TO DATE	269	392(1)	2	2	1	666(1)

From: Claudia Craig
To: Robert Jolly
Date: Tue, Feb 16, 1999 11:22 AM
Subject: Fwd: Re: St. Lucie Turtle Study

Rob - e-mail David back with your question. Also, factor his discussion about the end date of the study into the draft letter (including changing the date in the future) and then we can start the letter in concurrence. Also, would you go up and get those logs that Bill Gleaves e-mailed me about last week. We can take a look at them. Thanks.

>>> Robert Jolly 02/16 9:47 AM >>>

C/18

March 24, 1999

MEMORANDUM TO: File

FROM: Kimberly D. Leigh, NRR/PGEB Original Signed By:

SUBJECT: NOTES FROM THE ST. LUCIE CONFERENCE CALL REGARDING REPORTING REQUIREMENTS AND PROPOSED CHANGES TO APPENDIX B OF OPERATING LICENSE

On March 11, 1999, a conference call was conducted between Florida Power and Light (FPL) and staff members of the U.S. Nuclear Regulatory Commission (NRC). The NRC staff in attendance were Ann Hodgdon, Robert Jolly, Bill Gleaves, and Kimberly Leigh. FPL staff members included George Madden and Ed Weinkum.

The call was initiated by NRC staff as a result of a letter dated December 18, 1998, from FPL regarding proposed alternate environmental reporting for St. Lucie Unit 1 and 2. The NRC staff wanted clarification of the letter's intent. The FPL staff stated that they would like to propose alternate reporting guidance to the reporting requirements of 10 CFR 50.72 and 10 CFR 50.73, as outlined in NUREG-1022. Currently the NRC staff is revising the 10 CFR 50.72 and 50.73 and will update NUREG-1022. The FPL staff suggested that an additional bullet point be added to NUREG-1022 under the 10 CFR 50.72(b)(2)(vi) discussion section to clarify reporting requirements for endangered species takes. FPL stated that the St. Lucie Environmental Protection Plan, Appendix B of the license, calls for a verbal notification to NRC within 72-hours for endangered species mortalities. 10 CFR 50.72 (b)(2)(vi) presently calls for a 4-hour notification to NRC, for which a news release or notification to another agency is made. Additionally, FPL, through a state permit from the Florida Department of Environmental Protection, is required to report within 12-hours for all turtle mortalities. FPL requested that it continue with the requirements of Section 4.1 of the St. Lucie EPP. The licensee finds it difficult and burdensome to comply with the 4 hour reporting requirement of 10 CFR 50.72. NRC stated that it would continue to research and review the options presented by FPL, in addition to forwarding FPL's concerns to the NRC rulemaking staff.

The NRC staff also discussed proposed changes to the St. Lucie Environmental Protection Plan. The licensee had proposed reporting requirement language regarding the taking of endangered species that are "causally related to plant operation" when referring to mortalities or lethal takes. However, since the lethal limit in the Incidental Take Statement included consideration for turtle mortalities not causal to plant operations, the staff found the proposed language to be inadequate. The staff also stated that it considers the proposal by FPL to inspect the monitoring wells as acceptable.

DISTRIBUTION: 3/11/99 ST. LUCIE TELECON memo dated _____
PGEB r/f Central Files CCarpnter RArchitzel BGleaves RJolly
AHodgdon DAllison
DOCUMENT NAME: g:\kdc\StLucie1.wpd

OFFICE	PGEB	PGEB (SC)
NAME	KLeigh	RArchitzel
DATE	1/99	4/99

CF19

9904020009 /CF

February 22, 1999

Mr. J. A. Stall
Site Vice President
St. Lucie Nuclear Plant
Florida Power and Light Company
6351 S. Ocean Drive
Jensen Beach, FL 34957

Dear Mr. Stall,

This letter is in regard to the proposed study of turtle entrapments at the St. Lucie plant intake canal as required by condition #7 of the incidental take statement (ITS) of the February 7, 1997, biological opinion (BO). The BO was the result of the Section 7 consultation under the Endangered Species Act. In a letter dated May 8, 1998, the National Marine Fisheries Service (NMFS) provided the Nuclear Regulatory Commission (NRC) with revisions to the ITS of the BO. The revisions request FPL to propose a study and obtain NMFS approval prior to implementing the study. By letter dated June 17, 1998, NRC forwarded the revisions of the ITS to FPL and requested the St. Lucie plant implement the revised provisions in its Environmental Protection Plans. FPL provided the proposed changes to the St. Lucie Environmental Protection Plans implementing the ITS to NRC by letter dated August 26, 1998. By letter dated October 7, 1998, NRC forwarded FPL's draft request for proposal to design and implement a study to elucidate the effect of various factors on turtle entrapment to NMFS for review and approval.

NMFS has reviewed FPL's proposal for the turtle study and has concluded that it is acceptable. FPL should proceed with implementation of the study. Once a contract is in place, FPL should provide quarterly progress reports on the turtle study to NMFS. The ITS states the final report is to be completed by December 31, 1999. However, because the contract has not yet been placed, this date is not likely to be met. Therefore, once the contract is in place and the quarterly reports are being submitted, please provide a completion date for the final report. The NRC staff anticipates a date of completion of the study to be sometime in March 2000. This allows approximately two months for proposal solicitation, one month for contract awarding, six months for creating a draft report, and three months for finalizing the report. If you have any further questions regarding this matter please contact Ms. Claudia Craig at 301-415-1053.

Sincerely,

Original signed by

William C. Gleaves, Project Manager
Project Directorate II-3
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-335 and 50-389

cc: See next page

DISTRIBUTION:

Docket Files W. Gleaves St. Lucie R/F
P. GEB R/F R. Jolly
R. Architzel K. Campbell
C. Craig C. Sochor

DOCUMENT NAME: g:\rxj4\studyltr.wpd

OFFICE	P. GEB	PM: P. GEB	SC: P. GEB	PM: PDII-3
NAME	R. Jolly*	C. Craig*	R. Architzel*	W. Gleaves ^{WCG}
DATE	2/19/99	2/19/99	2/22/99	2/22/99

*See Previous Concurrence



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 22, 1999

Mr. J. A. Stall
Site Vice President
St. Lucie Nuclear Plant
Florida Power and Light Company
6351 S. Ocean Drive
Jensen Beach, FL 34957

Dear Mr. Stall,

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Sincerely,

A handwritten signature in black ink, appearing to read "Wm C Gleaves".

William C. Gleaves, Project Manager
Project Directorate II-3
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-335 and 50-389
cc: See next page

Mr. J. A. Stall
Florida Power and Light Company

ST. LUCIE PLANT

cc:

Mr. T. F. Plunkett
President - Nuclear Division
Florida Power and Light Company
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Juno Beach, Florida 33408-0420

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Plant General Manager
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Jensen Beach, Florida 34957

Senior Resident Inspector
St. Lucie Plant
U.S. Nuclear Regulatory Commission
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Joe Myers, Director
Division of Emergency Preparedness
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Mr. Rajiv S. Kundalkar
Vice President - Nuclear Engineering
Florida Power & Light Company
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Juno Beach, FL 33408-0420

Mr. Douglas Anderson
County Administrator
St. Lucie County
2300 Virginia Avenue
Fort Pierce, Florida 34982

Mr. J. Kammel
Radiological Emergency
Planning Administrator
Department of Public Safety
6000 SE. Tower Drive
Stuart, Florida 34997

Mr. William A. Passetti, Chief
Department of Health
Bureau of Radiation Control
2020 Capital Circle, SE, Bin #C21
Tallahassee, Florida 32399-1741



Claudia 1832

**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

WASHINGTON, D.C. 20555-0001

March 30, 1999

MEMORANDUM TO: Herbert N. Berkow, Project Director
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Cynthia A. Carpenter, *Cynthia A. Carpenter*
Chief
Generic Issues and Environmental
Projects Branch
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: SAFETY EVALUATION REPORT INPUT AND ENVIRONMENTAL
ASSESSMENT FOR ST. LUCIE UNITS 1 AND 2
(TAC NOs. M99396, 99397)

Attached are the safety evaluation report (Attachment 1) input and the environmental assessment (Attachment 2) for St. Lucie Units 1 and 2. The draft safety evaluation report and environmental assessment address the proposed changes to Appendix B of Facility Operating Licenses DPR-67 and NPF-16, Environmental Protection Plan. The changes were proposed by Florida Power & Light to implement the terms and conditions of the Incidental Take Statement included in the Biological Opinion issued by the National Marine Fisheries Service with regard to sea turtles under the Endangered Species Act. Please contact Ms. Kimberly D. Leigh at 415-2678 if you have any questions.

Attachments: As stated

C/20

9904050254 / CF

DRAFT SAFETY EVALUATION REPORT INPUT
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATING TO THE ST. LUCIE PLANT, UNITS 1 AND 2
FACILITY OPERATING LICENSES DPR-67 and NPF-16
DOCKET NOS. 50-335 and 50-389

1.0 INTRODUCTION

In 1995, a Section 7 consultation under the Endangered Species Act of 1973 was initiated as a result of a large increase in the frequency of small green turtles taken incidentally and occasionally killed by entrapment in the plant's cooling water intake canal. The consultation was performed to consider the effects of the continued operation of the cooling water system at the plant on listed species of sea turtles. The licensee submitted a biological assessment (BA) to the NRC in a letter dated November 20, 1995, which was reviewed by the staff and forwarded to the National Marine Fisheries Service (NMFS) on February 7, 1996. NMFS issued its biological opinion (BO) to the NRC in a letter dated February 7, 1997. The BO concluded that continued operation of the plant may adversely affect, but is not likely to jeopardize, the continued existence of listed sea turtle species under NMFS jurisdiction. An incidental take statement (ITS) was included in the BO to establish lethal take levels for listed species of sea turtles. The ITS included terms and conditions necessary to monitor and minimize adverse impacts and the lethal takes of sea turtles. NMFS considers these terms and conditions reasonable and prudent measures and are necessary to be implemented. The NRC staff held a public meeting with the licensee and the Florida Department of Environmental Protection (FDEP) on May 7, 1997 (summary dated May 27, 1997), to discuss a study regarding sea turtle entrapment required by a condition of the ITS. Other areas of the ITS that needed clarification or revision or both were identified by the licensee. The NRC staff forwarded the BO to the licensee in a letter dated May 30, 1997, and requested FPL propose changes to the St. Lucie Units 1 and 2 Environmental Protection Plans (EPPs), located in Appendix B to Facility Operating Licenses DPR-67 and NPF-16 to implement the terms and conditions of the ITS. In a letter dated August 4, 1997, FPL proposed revisions to the EPPs. In a letter dated October 6, 1997, the staff informed FPL that the NRC and NMFS disagreed with the proposed changes and requested that FPL make changes to the EPP consistent with the BO and the ITS.

Proposed amendments to the EPP were submitted by FPL in a letter dated December 1, 1997; however, FPL had several further questions concerning the terms and conditions of the ITS. The staff held another public meeting with the licensee and representatives from FDEP and NMFS to discuss these issues. The meeting was held on January 20, 1998 (summary dated February 9, 1998). Subsequent to the meeting, NMFS amended its BO in a letter to the NRC dated May 8, 1998. The NRC forwarded the ITS amendments to FPL in a letter dated June 17, 1998, and requested that FPL amend the application for the EPP revisions. FPL provided an amended application by letter dated August 26, 1998. Per the revised ITS, in a letter dated

October 8, 1998, the NRC forwarded FPL's proposed intake well monitoring program and the proposed plan for the entrapment study to NMFS for review and approval. In a letter dated, February, 22, 1999, NRC endorsed NMFS's approval of the proposed study of turtle entrapment.

2.0 EVALUATION

The proposed changes to Sections 4 and 5 of the EPP to incorporate the terms and conditions of the ITS are generally consistent with the BO and current plant practice. Each of changes is discussed below.

The Unit 1 EPP does not contain all of the environmental conditions for the protection of sea turtles that are contained in the Unit 2 EPP. FPL proposed to modify Sections 4 and 5 in the Unit 1 EPP to conform to Sections 4 and 5 in the Unit 2 EPP. This change would make the Unit 1 and Unit 2 EPPs identical. This change is acceptable.

Section 4.1, "Unusual or Important Environmental Events" - FPL proposed changes in Section 4.1 to clarify the reporting requirements for unusual or important environmental events. These changes are acceptable in part. The phrase "causally related to plant operations," when referring to mortalities or lethal takes to endangered turtles is not acceptable. As discussed during the January 20, 1998, meeting, NMFS indicated that the lethal limits in the ITS included consideration for turtle mortalities not causal to plant operations. This provides authorization for all incidental takes up to the limit without the risk of speculation as to whether or not the lethal take was caused by plant operations. In addition, the reporting requirement time frame is to be consistent with 50.72 for environmental protection issues.

Section 4.2, "Terrestrial/Aquatic Issues" - FPL proposed adding an introductory paragraph providing background on the St. Lucie consultation. The introductory paragraph conveys that in May 1995, NRC initiated the formal consultation with NMFS resulting in an updated Sea Turtle BA submitted by FPL on November 20, 1995. NMFS reviewed this assessment and in return issued a Biological Opinion dated February 7, 1997. This change is acceptable.

Section 4.2.1, "Beach Nesting Surveys" - This section originally discussed the beach nesting surveys required for the early years of operation. FPL has been conducting nesting studies as part of the St. Lucie reporting requirements for the U.S. Fish and Wildlife Service (FWS) and the FDEP and is involved in providing data for long-term nesting index surveys. FPL proposed relocating the requirements for nesting surveys to Section 4.2.2.2, Item 9. The staff agrees with deletion of this section because the surveys required in the original EPP have been completed and the ongoing surveys are captured under other requirements.

FPL proposed a new Section 4.2.1, "Reinitiation of Endangered Species Act Section 7 Consultation," to address the process for reinitiating a Section 7 consultation. The conditions outlined in Section 4.2.1 for reinitiation are consistent with those outlined in the BO and, therefore, are acceptable.

Section 4.2.2, "Studies to Evaluate and/or Mitigate Intake Entrapment" - This section originally discussed the requirements to perform studies to evaluate and/or mitigate intake structure

entrapment. These studies were completed in 1985 and the results were provided to the NRC in FPL letter dated April 18, 1985. Because these studies are complete, and mitigation measures are discussed in the BO and terms and conditions of the ITS, deleting the original Section 4.2.2 requirements is acceptable.

FPL proposed a new section 4.2.2, "Incidental Take Statement," to address the background and basis for the incidental take limits. These changes are acceptable.

Section 4.2.2.1, "Lethal Take Levels" - This section discusses the lethal take levels for sea turtles by species as specified in the ITS. The numerical limits will be included in plant procedures and will allow for a case-by-case review and change in lethal take limits without a need for a license amendment. The lethal take levels are based on historical observed lethal takes, but provide for an increase in total numbers of lethal takes as entrapment levels increase. Two lethal levels are specified: one is a fixed level of lethal takes per calendar year, while the other is a percentage of the total number of entrapments per calendar year. The allowable take level will be the greater of the two numbers. The levels are consistent with the ITS and therefore, are acceptable.

Section 4.2.2.2, "Terms and Conditions of the Incidental Take Statement" - This section includes the terms and conditions of the ITS. These include the mitigation measures discussed in the BA and BO and generally reflect current practices at St. Lucie. In the BO issued by NMFS, FPL took exception to items 6, 7, 9, and 10. In the May 8, 1998, letter from NMFS to the NRC, NMFS amended the BO with regard to these issues. Each of the terms and conditions is discussed below.

Item 1 establishes the requirement and provisions for FPL to install, maintain, and inspect the five- inch barrier net across the intake canal.

Item 2 instructs FPL to retain the existing eight- inch barrier net as back up to the new five- inch net. FPL shall inspect, maintain and repair the eight- inch net on at least a quarterly basis.

Item 3 requires FPL to continue the current capture and release program in accordance with permits granted by FDEP.

Item 4 establishes criteria for capture netting in the intake canal. It specifically defines the minimum number of hours and required conditions to increase netting activities.

Item 5 directs capture efforts if a turtle is observed west of the eight- inch barrier net.

Item 6 requires FPL to implement a monitoring program of the intake wells for sea turtles, identifies the responsible FPL staff to conduct monitoring and the appropriate response personnel if a turtle is detected in the intake well.

Item 7 originally requested a study using remote videography or a similarly designed methodology that would not interfere with turtle behavior while the study is being performed. Based on the meetings at the site, NMFS and FDEP agreed with FPL that

such a study was not feasible, however, a different type of study would be acceptable. On June 17, 1998, NRC issued a letter to FPL containing revisions to the ITS, including a discussion of a study to be performed to elucidate the effect of various factors on turtle entrapment. After initiation of the study, FPL is to report quarterly on progress and provide a final report approximately one year after initiation. FPL submitted a request for proposal for the study in letter dated August 26, 1998. NMFS reviewed the request for proposal and determined that it met the intent of the BO as indicated by letter dated February 22, 1999, from NRC to FPL approving the study. Therefore, item 7 is acceptable.

Item 8 discusses the requirement that FPL participate in the Sea Turtle Stranding and Salvage Network (STSSN) under FDEP authority and permits. This is to assess any possible delayed lethal impacts of capture as well as to provide background data and health of local turtles. Stranded turtles will not be counted against the authorized level of lethal incidental takes for St. Lucie.

Item 9 of the original BO stated that FPL will continue, under FDEP, the ongoing sea turtle nesting program and public service turtle walks.

Item 10 of the original BO discussed reporting requirements. In the May 8, 1998, revision to the BO, NMFS clarified the reporting requirements and identified biennial meetings to begin in January 2000 between NRC, NMFS, FPL, and FDEP. Notwithstanding the requirements to other government agencies, the time frame for reporting to the NRC is to be consistent with 10 CFR 50.72.

Items 1 through 10 listed above are consistent with the ITS and are acceptable revisions and/or additions to the EPP.

Section 4.2.3, "Studies to Evaluate and/or Mitigate Intake Canal Mortality" - This section originally discussed the requirement to perform studies to evaluate and/or mitigate intake canal mortality. These studies were documented in FPL letter dated November 20, 1995, and were discussed in the BA and resulting BO. Many of these mitigation measures are captured in separate sections of the EPP. Because these original studies were completed and mitigation measures are discussed in other sections of the EPP, deleting this section is acceptable.

Section 4.2.4, "Light Screen to Minimize Turtle Disorientation" - This section has been renumbered to Section 4.2.3. Additionally, the reference to "Australian pine" has been deleted and generalized to "suitable plants" for light screen along the beach dune. The State of Florida has an ongoing program to replace nonindigenous species of plants with native varieties of plants as light screens along the beaches. The Australian pine is not a native plant species. The requirement for the shielding perimeter lights from Unit 1 License Condition 2.F.(1) will transfer to Section 4.2.3 of the Unit 1 and Unit 2 EPP. This requirement is not currently in the Unit 2 License. This transfer is being performed to generate consistency between the Unit 1 and Unit 2 EPPs. These changes are acceptable.

Section 4.2.5, "Capture and Release Program" - This section originally outlined the requirements of the capture and release program for sea turtles removal from the intake canal. The section

has been deleted in its entirety because the capture and release program is now covered by Section 4.2.2.2, Item 9. This change is acceptable.

Section 4.3, "General Exceptions" - This section has been changed to highlight that the environmental conditions of Section 4 are contingent upon FPL obtaining the required permits to take, handle or experiment with sea turtles from FDEP. This change is acceptable.

Section 5.4.1.1, "Monthly Reports" - This section has been added to include a requirement that monthly reports on the sea turtle program be provided to NMFS. This monthly reporting requirement is also identified in Section 4.2.2.2, Item 10. The reporting requirement is consistent with the ITS and therefore is acceptable.

Section 5.4.1.2, "Annual Environmental Operating Report" - This section was section 5.4.1 and has been renumbered 5.4.1.2. It outlines what types of information should be included in the annual environmental operating report. FPL proposed deletion of the requirement referencing the initial annual report covering the period of time from operating license issuance date to December 31, 1983. The initial report has been completed. FPL also added a new section, (d), which requires a summary of the monthly reports to NMFS be included in the annual environmental operating report. The annual environmental operating report should be furnished to NMFS and NRC. This change is consistent with the ITS requirement to furnish NMFS an annual report. These changes are acceptable.

Section 5.4.2, "Nonroutine Reports" - This section outlines the information to be included in the nonroutine event report. Several editorial changes were made to Section 5.4.2 to clarify reporting requirements, including providing reports to the NRC within 30 days of submitting a report to another agency. The change regarding reporting in accordance with 10 CFR 50.4 is acceptable; however, the report should continue to be submitted to the NRC in the same time frame that is submitted to other government agencies.

3.0 CONCLUSION

The Commission has concluded based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: C. Craig
R. Jolly

Dated:



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

J.A. Stall, Vice President
St. Lucie Nuclear Plant
Florida Power and Light Company
6351 S. Ocean Drive
Jensen Beach, FL 34957

SUBJECT: ST. LUCIE NUCLEAR PLANT - (TAC NOs. M99396, 99397)

Dear Mr. Stall:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for amendment dated December 1, 1997, as supplemented on August 26, 1998. The proposed amendment would revise the Unit 1 and 2 Environmental Protection Plans (Appendix B of the operating licenses) Section 4, "Environmental Conditions," and Section 5 "Administrative Procedures," to incorporate the terms and conditions of the Incidental Take Statement in the Biological Opinion issued by the National Marine Fisheries Service (NMFS) on February 7, 1997, and subsequently modified on May 8, 1998. The proposed action would replace Sections 4 and 5 of the Environmental Protection Plans for both Units 1 and 2 identically. The assessment is being forwarded to the Office of the Federal Register for publication.

Sincerely,

William C Gleaves, Project Manager
Project Directorate II-3
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-355 and 50-389

Enclosure: Environmental Assessment

cc w/encl: See next page

Attachment 2

UNITED STATES NUCLEAR REGULATORY COMMISSION

FLORIDA POWER AND LIGHT COMPANY

50-335 AND 50-389

ST. LUCIE NUCLEAR PLANT

ENVIRONMENTAL ASSESSMENT AND FINDING OF

NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License Nos. DRP-67 and NRF-16 for the St. Lucie Nuclear Plant, issued to Florida Power and Light Company (the licensee), for operation of the St. Lucie Nuclear Plant, Units 1 and 2 located in St. Lucie County, Florida.

ENVIRONMENTAL ASSESSMENT

Identification of the Proposed Action:

The proposed action would revise the Unit 1 and 2 Environmental Protection Plans (Appendix B of the operating licenses) Section 4, "Environmental Conditions," and Section 5 "Administrative Procedures," to incorporate the terms and conditions of the Incidental Take Statement in the Biological Opinion issued by the National Marine Fisheries Service (NMFS) on February 7, 1997, and subsequently modified on May 8, 1998. The proposed action will replace Sections 4 and 5 of the Environmental Protection Plans for both Units 1 and 2.

The proposed action is in accordance with the licensee's application for amendment dated December 1, 1997, as supplemented in a letter dated August 26, 1998.

*Generally low level
FPL abusing OT
5-4 operations planning to leave on same
Operator Training Program
Sunk operators returned to go back
11 returned, 1/2 dropped out
Security of information of plan*

*diff to in
- commis
- what to do
- programmatic
- specific issues
- good 30 day com*

*Core Actions Paper
Program good
what implement
needs to improve
root causes
red work*

*Allegations
#1 in country
Attachment 2
Great out
Drayer
Changes
Dropped
Make it
more accessible
#1 twice as much as 11/11/98
#20 those x*

The Need for the Proposed Action:

The proposed action would incorporate the terms and conditions of the Incidental Take Statement of the Biological Opinion issued by NMFS into St. Lucie Units 1 and 2 operating licenses as well as provide consistency between the Unit 1 and 2 Environmental Protection Plans.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed action and concludes that implementation of the Incidental Take Statement in St. Lucie's Environmental Protection Plan for Units 1 and 2 would support the National Marine Fisheries Service conclusion that the continued operation of the circulating water system at St. Lucie Plant is not likely to jeopardize the continued existence of threatened or endangered sea turtle species under NMFS jurisdiction. The Incidental Take Statement identifies actions that have or will be taken by St. Lucie to ensure the takes of endangered sea turtles are limited. These actions include the use of two different mesh barrier nets across the intake canal, a capture and release program for endangered sea turtles found in the intake canal, a program to monitor for endangered sea turtles at the cooling water intakes on a regular basis, and a study to elucidate the effect of various factors on turtle entrapment.

The proposed action will not increase the probability or consequences of accidents, no changes are being made in the types of any effluents that may be released off site, and there is no significant increase in occupational or public radiation exposure. Therefore, there are no significant radiological environmental impacts associated with the proposed action.

With regard to potential non-radiological impacts, the proposed action does not involve any historic sites. It does not affect non-radiological plant effluents and has no other environmental impact. Therefore, there are no significant non-radiological environmental impacts associated

with the proposed action.

Accordingly, the Commission concludes that there are no significant environmental impacts associated with the proposed action.

Alternatives to the Proposed Action:

As an alternative to the proposed action, the staff considered denial of the proposed action (i.e., the "no-action" alternative). Denial of the application would result in St. Lucie not implementing the Incidental Take Statement which would lead to takes of endangered sea turtles outside the NMFS Biological Opinion. The environmental impacts of the proposed action are less than the alternative action.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for the St. Lucie Nuclear Plant.

Agencies and Persons Consulted:

In accordance with its stated policy, on [insert date] the staff consulted with the [insert name of State] State official, [insert name of official] of the [insert name of agency], regarding the environmental impact of the proposed action. The State official had no comments.

FINDING OF NO SIGNIFICANT IMPACT

On the basis of the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed action.

For further details with respect to the proposed action, see the licensee's letter dated December 1, 1997, as supplemented in a letter dated August 26, 1998, which are available for public inspection at the Commission's Public Document Room, The Gelman

Building, 2120 L Street, NW., Washington, DC, and at the local public document room located at the Indian River Community College Library, 3209 Virginia Avenue, Fort Pierce, Florida 34981-5596.

Dated at Rockville, Maryland, this day of , 1999.

FOR THE NUCLEAR REGULATORY COMMISSION

**Cecil O. Thomas, Jr., Director
Project Directorate
Division of Licensing Project Management
Office of Nuclear Reactor Regulation**

NUCLEAR REGULATORY COMMISSION

[Docket Nos. 50-335 and 50-389]

Florida Power & Light Company, Inc., et al., St. Lucie Plant, Units 1 and 2; Environmental Assessment and Finding of No Significant Impact

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of amendments to Facility Operating License Nos. DPR-67 and NPF-16, issued to Florida Power and Light Company (the licensee), for operation of the St. Lucie Nuclear Plant, Units 1 and 2 located in St. Lucie County, Florida.

Environmental Assessment*Identification of the Proposed Action*

The proposed amendments would revise the St. Lucie Plant, Units 1 and 2, Technical Specifications, Appendix B, "Environmental Protection Plan (Non-Radiological)" (EPP), to incorporate the terms and conditions of the Incidental Take Statement in the Biological Opinion issued by the National Marine Fisheries Service (NMFS) on February 7, 1997, and subsequently modified on May 8, 1998. The proposed amendments will replace Section 4, "Environmental Conditions," of the EPPs for both Units 1 and 2, and add Section 5, "Administrative Procedures," to the Unit 1 EPP and revise the current EPP Section 5 for Unit 2.

The proposed action is in accordance with the licensee's application for amendment dated December 1, 1997, as supplemented in a letter dated August 26, 1998.

The Need for the Proposed Action

The proposed action would incorporate the terms and conditions of the Incidental Take Statement of the Biological Opinion issued by NMFS into St. Lucie Units 1 and 2 operating licenses as well as provide consistency between the Unit 1 and Unit 2 Environmental Protection Plans.

Environmental Impacts of the Proposed Action

The Commission has completed its evaluation of the proposed action and concludes that implementation of the Incidental Take Statement in St. Lucie's Environmental Protection Plan for Units 1 and 2 would support the National Marine Fisheries Service conclusion that the continued operation of the circulating water system at St. Lucie Plant is not likely to jeopardize the continued existence of threatened or

endangered sea turtle species under NMFS jurisdiction. The Incidental Take Statement identifies actions that have been or will be taken by St. Lucie to ensure the takes of endangered sea turtles are limited. These actions include the use of two different mesh barrier nets across the intake canal, a capture and release program for endangered sea turtles found in the intake canal, a program to monitor for endangered sea turtles at the cooling water intakes on a regular basis, and a study to elucidate the effect of various factors on turtle entrapment.

The proposed action will not increase the probability or consequences of accidents, no changes are being made in the types of any effluents that may be released off site, and there is no significant increase in occupational or public radiation exposure. Therefore, there are no significant radiological environmental impacts associated with the proposed action.

With regard to potential non-radiological impacts, the proposed action does not involve any historic sites. It does not affect non-radiological plant effluents and has no other environmental impact. Therefore, there are no significant non-radiological environmental impacts associated with the proposed action.

Accordingly, the Commission concludes that there are no significant environmental impacts associated with the proposed action.

Alternatives to the Proposed Action

As an alternative to the proposed action, the staff considered denial of the proposed action (i.e., the "no-action" alternative). Denial of the application would result in St. Lucie not implementing the Incidental Take Statement which would lead to takes of endangered sea turtles outside the NMFS Biological Opinion. The environmental impacts of the proposed action are less than the alternative action.

Alternative Use of Resources

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for the St. Lucie Nuclear Plant.

Agencies and Persons Consulted

On June 9, 1999, the staff consulted with William Passetti, Chief, Department of Health, Bureau of Radiation Control, for the state of Florida, regarding the environmental impact of the proposed action. The state official had no comments.

Finding of No Significant Impact

On the basis of the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed action.

For further details with respect to the proposed action, see the licensee's letter dated December 1, 1997, as supplemented in a letter dated August 26, 1998, which are available for public inspection at the Commission's Public Document Room, The Gelman Building, 2120 L Street, NW., Washington, DC, and at the local public document room located at the Indian River Community College Library, 3209 Virginia Avenue, Fort Pierce, Florida 34981-5596.

For the Nuclear Regulatory Commission.

Dated at Rockville, Maryland, this 23rd day of June, 1999.

William C. Gleaves,

Project Manager, Section 2, and Project Director II, Division of Licensing Project Management, Office of Nuclear Reactor Regulation.

[FR Doc. 99-16488 Filed 6-28-99; 8:45 am]

BILLING CODE 7590-01-P

NUCLEAR REGULATORY COMMISSION**Sunshine Act Meeting**

AGENCY HOLDING THE MEETING: Nuclear Regulatory Commission.

DATES: Weeks of June 28, July 5, 12, and 19, 1999.

PLACE: Commissioners' Conference Room, 11555 Rockville Pike, Rockville, Maryland.

STATUS: Public and Closed.

MATTERS TO BE CONSIDERED:

Week of June 28

Tuesday, June 29

9:00 a.m. Affirmation Session
(Public Meeting) (If needed)

Week of July 5—Tentative

There are no meetings scheduled for the Week of July 5.

Week of July 12—Tentative

Tuesday, July 13

9:30 a.m. Briefing on Treatment of Existing Programs for License Renewal (Public Meeting)

Thursday, July 15

10:00 a.m. Briefing on Existing Event Response Procedures (Including Federal Response Plan and Coordination of Federal Agencies in Response to Terrorist

C/21

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From: Bill Gleaves
To: Barry Zalzman
Date: Thu, Oct 7, 1999 9:22 AM
Subject: Need to Consult with NMFS on Turtle Morts.

Barry,
St. Lucie exceeded its mortality limit for Greens on Sept 19. When this happened last (maybe it was 1998?), we apparently called NMFS and temporarily raised their limit to 6, which reset to the set limit at the end of that year.

Please let me know if we can do the same now and what the schedule will be for issuance of our letter extending the limit. I discussed this with FPL and they said that they would prefer if the limit was raised permanently, or if the expiration date for a temp. limit lasted longer than the end of the year.

Thanks,
Bill Gleaves
St. Lucie Project Manager

P.S. The TAC no. for this work is MA6374 & MA6375. Please let me know if you need an official work request, or if this email is acceptable.

CC: Kimberly Leigh

C/22

From: <George_Madden@fpl.com>
To: OWFN_DO.owf4_po(BCG) — *Bill Cleaves*
Date: Thu, Oct 7, 1999 7:28 AM
Subject: SEPTEMBER 1999 TURTLE CAPTURE UPDATE

FYI

----- Forwarded by George Madden/Psl/Nuclear/FplNuc on 10/07/99
07:28 AM -----

Nick Whiting
10/07/99 01:49 AM

Sent by: Nick Whiting

To: Steve Marchigiano/Psl/Nuclear/FplNuc@FplNuc, Wes
Bladow/Psl/Nuclear/FplNuc@FplNuc, George Madden/Psl/Nuclear/FplNuc@FplNuc,
Jonathan Gorham/Psl/Nuclear/FplNuc@FplNuc, Stacy
Foster/Psl/Nuclear/FplNuc@FplNuc, John Toebe/Psl/Nuclear/FplNuc@FplNuc,
Michael Bresette/Psl/Nuclear/FplNuc@FplNuc, Dave
Singewald/Psl/Nuclear/FplNuc@FplNuc, Winifred Perkins@FPL

cc:

Subject: SEPTEMBER 1999 TURTLE CAPTURE UPDATE

Below please find a summary of 1999 sea turtle captures in the St. Lucie Plant intake canal through the month of September. Numbers in parentheses indicate mortalities.

We had three green turtle mortalities in September. See attached letter to NRC describing the events. Letter also requests increase the incidental take limit for this species.

Nick

(See attached file: Turtstat.xls)
Mort 30day.doc)

(See attached file: Sea Turtle

Ch3

David. Bernhart@noaa.gov

From: Kimberly Leigh
To: internet:davidbernhart@noaa.gov
Date: Tue, Oct 12, 1999 12:48 PM
Subject: St. Lucie Nuclear Power Plant and ESA consultation

David-

Good afternoon. This e-mail is an informal notice to let the NMFS know that the U.S. Nuclear Regulatory Commission (NRC) is cognizant of the St. Lucie's Incidental Take Statement non-compliance (for sea turtles). The St. Lucie plant is located in St. Lucie County, Florida. The NMFS and NRC discussed terms of the Biological Opinion on May 7, 1997, and January 20, 1998. NRC is currently assessing the situation and will be in formal contact with NMFS regarding re-initiation of consultation in order to evaluate the Incidental Take Statement. Please let the NRC know if there is any specific information NMFS would need in order to re-initiate consultation.

Thank you,

Kim Leigh

CC: Barry Zalzman, Bill Gleaves, James Wilson

Sent

Chy

**Meeting Agenda
St. Lucie Plant
November 10, 1999**

Purpose: To discuss the reinitiation of consultation with National Marine Fisheries Service (NMFS) and other information and developments regarding endangered and threatened species at St. Lucie Plant. The second part of the meeting is intended to satisfy the requirement for the biannual meeting, as discussed in the St. Lucie Plant Technical Specifications, Appendix B, "Environmental Protection Plan."

Agenda

- 0830 - 0835 Arrival at FPL Land Utilization Building (plant entrance "B") and introductions (FPL, NRC, NMFS, State of Florida)
- 0835 - 0945 Tour of FPL facilities; plant intake canal; plant screens; net structures; turtle recovery area. (All)
- 1000 - 1010 Start of Public Meeting; required announcements to General Public (NRC)
- 1010 - 1145 General discussion (All)
- 1145 - 1200 Conclusion of Public Meeting and schedule for future meetings
- Topics
- "Take" Status Update
 - Reinitiation of Consultation with NMFS
 - Discussion Of Options
 - Discussion of information and developments regarding endangered and threatened species at St. Lucie Plant
- 1200 - 1245 Lunch on site
- 1245 If business complete; depart site

C/25

MEMORANDUM TO: Kahtan N. Jabbour, Acting Chief, Section 2
Project Directorate II
Division of Licensing Project Management

FROM: William C. Gleaves, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management

SUBJECT: FORTHCOMING MEETING WITH FLORIDA POWER & LIGHT
COMPANY - ST. LUCIE PLANT, UNITS 1 & 2 - RELATING TO THE
PROTECTION OF THE THREATENED AND ENDANGERED SPECIES OF SEA
TURTLES

DATE & TIME: Wednesday, November 10, 1999
10:00 a.m. - 12:00 p.m.

LOCATION: Florida Power and Light Company, St. Lucie Plant
Land Utilization Office, Plant Entrance Gate "B"
6501 South Ocean Drive
Jensen Beach, Florida

PURPOSE: The purpose of the meeting is to discuss the following: 1) reinitiation of a formal consultation with the National Marine Fisheries Service (NMFS) on green turtle (*Chelonia mydas*) limits, and 2) endangered and threatened species information and developments at the St. Lucie Plant. The second part of this meeting will satisfy the requirements for the biennial meeting required in the St. Lucie Technical Specifications, Appendix B, "Environmental Protection Plan."

<u>PARTICIPANTS*</u>	<u>NRC/NRR</u>	<u>NMFS</u>	<u>UTILITY</u>
	W. Gleaves	R. Hoffman	G. Madden
	K. Leigh	et al.	N. Whiting
	J. Wilson		J. Gorham
			W. Perkins
			E. Weinkam
			et al.

Docket Nos. 50-335 and 50-389

Attachment: Agenda

cc w/Attachment: See next page

CONTACT: Bill Gleaves, Project Manager
(301) 415-1479

*Meetings between NRC technical staff and applicants or licensees are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to, "Commission Policy Statement on Staff Meetings Open to the Public," 59 Federal Register 48340, 9/20/94.

**Meeting Agenda
St. Lucie Plant
November 10, 1999**

Purpose: To discuss the re-initiation of consultation with National Marine Fisheries Service and developments regarding endangered and threatened species at St. Lucie Plant. The second part of the meeting is intended to satisfy the requirement for the biennial meeting, as discussed in the St. Lucie Plant Technical Specifications, Appendix B, "Environmental Protection Plan."

Agenda

- 0930 - 1000 Arrival and Introductions
- 1000 - 1010 Required announcements to General Public
- 1010 - 1145 General Discussion
- 1145 - 1200 Conclusion and schedule for future meetings, if necessary.

Topics

- "Take" Status Update
- Reinitiation of Consultation with NMFS
- Discussion Of Options
- Discussion of information and developments regarding endangered and threatened species at St. Lucie Plant

1200 Adjourn

November 17, 1999

MEMORANDUM TO: Herbert N. Berkow, Project Director
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Cynthia A. Carpenter, Chief Original signed By:
Generic Issues, Environmental, Financial, and
Rulemaking Branch
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: INITIATE CONSULTATION WITH THE NATIONAL MARINE FISHERIES
SERVICE REGARDING SEA TURTLES PROTECTED UNDER THE
ENDANGERED SPECIES ACT AT THE ST. LUCIE NUCLEAR PLANT
(TAC NOS. MA6374 AND MA6375)

As agreed in the meeting held on November 10, 1999, between Florida Power and Light Company, the Florida Fish and Wildlife Conservation Commission, the National Marine Fisheries Service (NMFS), and the U.S. Nuclear Regulatory Commission (NRC), the NRC will request formal consultation with the NMFS regarding endangered sea turtles at the St. Lucie Nuclear Plant. The letter that needs to be issued to the NMFS requesting a formal Section 7 consultation regarding sea turtles at the St. Lucie Nuclear Plant in compliance with the Endangered Species Act is attached. Contact Ms. Kimberly D. Leigh at 415-2678 if you have any questions.

Attachments: As stated

DISTRIBUTION: Central Files RGEB r/f CCarpenter BZalcman
JWilson KLeigh BGlaves

DOCUMENT NAME: g:\rgeb\kdl\environ\nmfsstlucie.wpd

OFFICE	RGEB	SC:RGEB	BC:RGEB
NAME	KLeigh	BZalcman	CCarpenter
DATE	/ /99	11/16/99	/ /99

OFFICIAL RECORD COPY





UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 17, 1999

MEMORANDUM TO: Herbert N. Berkow, Project Director
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Cynthia A. Carpenter, Chief *Cynthia A. Carpenter*
Generic Issues, Environmental, Financial, and
Rulemaking Branch
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: INITIATE CONSULTATION WITH THE NATIONAL MARINE FISHERIES
SERVICE REGARDING SEA TURTLES PROTECTED UNDER THE
ENDANGERED SPECIES ACT AT THE ST. LUCIE NUCLEAR PLANT
(TAC NOS. MA6374 AND MA6375)

As agreed in the meeting held on November 10, 1999, between Florida Power and Light Company, the Florida Fish and Wildlife Conservation Commission, the National Marine Fisheries Service (NMFS), and the U.S. Nuclear Regulatory Commission (NRC), the NRC will request formal consultation with the NMFS regarding endangered sea turtles at the St. Lucie Nuclear Plant. The letter that needs to be issued to the NMFS requesting a formal Section 7 consultation regarding sea turtles at the St. Lucie Nuclear Plant in compliance with the Endangered Species Act is attached. Contact Ms. Kimberly D. Leigh at 415-2678 if you have any questions.

Attachments: As stated



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

Mr. Robert Hoffman
National Marine Fisheries Service
Southeast Region
Protected Species Division
9721 Executive Center Drive North
St. Petersburg, FL 33702

**SUBJECT: REQUEST FOR FORMAL SECTION 7 CONSULTATION UNDER THE
ENDANGERED SPECIES ACT IN REGARDS TO SEA TURTLES AT THE
ST. LUCIE NUCLEAR PLANT (TAC NOS. MA6374 AND MA6375)**

Dear Mr. Hoffman:

As we discussed in the meeting held on November 10, 1999, between the National Marine Fisheries Service (NMFS), Florida Power and Light Company (FPL), the Florida Fish and Wildlife Conservation Commission, and the U.S. Nuclear Regulatory Commission (NRC), the NRC is requesting an increase in the 1999 incidental take limits for sea turtles at the St. Lucie Nuclear Plant. The NRC would also like to formally request the re-initiation of Section 7 consultation on sea turtles at St. Lucie based on the information being collected in a study scheduled for completion in March 2000. The study is required by Condition #7 of the Incidental Take Statement found in the February 7, 1997, Biological Opinion for St. Lucie. Upon completion of the study, NRC will forward the information gathered by the study to support this consultation.

Additionally, a letter noting the approval of the above study by NMFS has been included as Enclosure 1. Please contact Ms. Kimberly D. Leigh at 301-415-2678 with any questions or comments.

Sincerely,

Herbert N. Berkow, Project Director
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

Docket Nos. 50-335, 50-389

Enclosure: As stated

cc w/encl: See next page

-----+-----
 | Power Reactor | Event Number: 36467 |
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FACILITY: SAINT LUCIE REGION: 2	NOTIFICATION DATE: 11/26/1999
UNIT: [1] [2] [] STATE: FL	NOTIFICATION TIME: 17:34 [EST]
RXTYPE: [1] CE, [2] CE	EVENT DATE: 11/26/1999
-----+-----	
NRC NOTIFIED BY: DAVE WILLIAMS	EVENT TIME: 17:12 [EST]
HQ OPS OFFICER: STEVE SANDIN	LAST UPDATE DATE: 11/26/1999
 -----+-----

EMERGENCY CLASS:	N/A	PERSON	ORGANIZATION
10 CFR SECTION:		LEN WERT	R2
APRE 50.72(b)(2)(vi)	OFFSITE NOTIFICATION		

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation

-----+-----
 | EVENT TEXT |
 -----+-----
 | OFFSITE NOTIFICATION TO STATE AGENCY REGARDING DEAD SEA TURTLE FOUND IN |
 | BARRIER NET OF THE INTAKE CANAL |
 |
 | "[A] NOTIFICATION [WAS] MADE TO [THE] FLORIDA DEPARTMENT OF ENVIRONMENTAL |
 | PROTECTION (DEP) REGARDING [THE] REMOVAL OF [A] DEAD SUB-ADULT LOGGERHEAD |
 | SEA TURTLE FROM THE BARRIER NET IN THE COMMON PLANT INTAKE CANAL. THE |
 | TURTLE WAS REMOVED AT APPROXIMATELY 1700 [HOURS] ON 11/26/99, AND THE |
 | FLORIDA DEP WAS NOTIFIED AT 1710 HOURS. [THE] ANIMAL WAS FOUND WITH |
 | MONOFILAMENT FISHING LINE AROUND [THE] FRONT FLIPPERS AND [THE] MORTALITY IS |
 | NOT BELIEVED TO BE CAUSALLY RELATED TO PLANT OPERATIONS. THE LICENSEE WILL |
 | NOTIFY THE NRC RESIDENT INSPECTOR." |
 -----+-----

C/27

Power Reactor | Event Number: 36465

FACILITY: SAINT LUCIE REGION: 2 NOTIFICATION DATE: 11/26/1999
UNIT: [1] [2] [] STATE: FL NOTIFICATION TIME: 09:12 [EST]
RXTYPE: [1] CE, [2] CE EVENT DATE: 11/26/1999
EVENT TIME: 08:00 [EST]
NRC NOTIFIED BY: DAVE WILLIAMS LAST UPDATE DATE: 11/26/1999
HQ OPS OFFICER: LEIGH TROCINE

EMERGENCY CLASS: N/A PERSON ORGANIZATION
10 CFR SECTION: LEN WERT R2
APRE 50.72(b)(2)(vi) OFFSITE NOTIFICATION

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation

EVENT TEXT

OFFSITE NOTIFICATION REGARDING A LIVE SEA TURTLE REMOVED FROM THE INTAKE CANAL BARRIER NET

The following text is a portion of a facsimile received from the licensee:

"At approximately 0730 on 11/26/99, a live juvenile loggerhead sea turtle was removed from the barrier net in the common plant intake canal. The Florida Department of Environmental Protection was notified at approximately 0800 for transfer to a rehabilitation facility."

The licensee notified the NRC resident inspector.

Power Reactor | Event Number: 35929

FACILITY: SAINT LUCIE REGION: 2 NOTIFICATION DATE: 07/17/1999
 UNIT: [1] [2] [] STATE: FL NOTIFICATION TIME: 11:30 [EDT]
 RXTYPE: [1] CE, [2] CE EVENT DATE: 07/17/1999
 NRC NOTIFIED BY: ALAN HALL EVENT TIME: 08:45 [EDT]
 HQ OPS OFFICER: STEVE SANDIN LAST UPDATE DATE: 07/17/1999

EMERGENCY CLASS:	N/A	PERSON	ORGANIZATION
10 CFR SECTION:		ANN BOLAND	R2
APRE 50.72 (b) (2) (vi)	OFFSITE NOTIFICATION		

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation

EVENT TEXT

OFFSITE NOTIFICATION TO STATE AGENCY CONCERNING DEAD LOGGERHEAD TURTLE FOUND IN THE INTAKE CANAL.

THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) WAS NOTIFIED OF A LOGGERHEAD TURTLE MORTALITY AT ST. LUCIE PLANT INTAKE CANAL. THE LICENSEE NOTIFIED THE NRC RESIDENT INSPECTOR.

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|NRC NOTIFIED BY: K. SISLER
|HQ OPS OFFICER: BOB STRANSKY
+-----+
|EMERGENCY CLASS: NOT APPLICABLE
|10 CFR SECTION:
|NBNL                RESPONSE-BULLETIN
|
|
+-----+

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EVENT TEXT

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+-----+
| 24-Hour NRC Bulletin 91-01 Report
|
| Facility personnel discovered that a nuclear criticality safety approval
| (NCSA) requirement was not being maintained in a laboratory storage area
| (Room 232) of the X-710 Laboratory. One poly bottle containing .8 grams of
| U-235 was found in this storage area in an array stored less than 12 inches
| from an inside room corner, thus violating Requirement #6 of
| NCSA PLANT006.A04. This constitutes a loss of control "A" (reflection) in
| the double contingency matrix for contingency event A.8.2 (reflection).
| Control "B" (spacing) was maintained throughout this event. Control "A" was
| established at 2030 under the direction of a nuclear criticality safety
| (NCS) personnel.
|
| The NRC resident inspector has been informed of this event.
+-----+

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POWER REACTOR

EVENT NUMBER: 34732

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+-----+
|FACILITY: SAINT LUCIE          REGION: 2 |NOTIFICATION DATE: 09/03/98 |
|UNIT:      [1] [2] [ ]        STATE: FL |NOTIFICATION TIME: 16:10 [ET] |
|RX TYPE: [1] CE, [2] CE      |EVENT DATE:          09/03/98 |
+-----+
|NRC NOTIFIED BY: ALAN HALL    |EVENT TIME:          13:30 [EDT] |
|HQ OPS OFFICER: BOB STRANSKY |LAST UPDATE DATE:   09/03/98 |
+-----+

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NOTIFICATIONS

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+-----+
|EMERGENCY CLASS: NOT APPLICABLE
|10 CFR SECTION:
|APRE 50.72(b)(2)(vi)        OFFSITE NOTIFICATION
|
|
|
|
+-----+

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UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
1	N	Y	100	POWER OPERATION	100	POWER OPERATION
2	N	Y	100	POWER OPERATION	100	POWER OPERATION

EVENT TEXT

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+-----+
| Offsite notification due to sea turtle in intake canal.
|
| The licensee notified the Florida State Department of Environmental
| Protection regarding the sighting of a small sea turtle in the plant intake
| canal. Plant employees were redeploying nets to trap jellyfish at the time
| of the sighting. The licensee plans to attempt to remove the turtle from
| the intake canal. The NRC resident inspector will be informed by the
+-----+

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POWER REACTOR		EVENT NUMBER: 33408				
FACILITY: SAINT LUCIE		REGION: 2	NOTIFICATION DATE: 12/15/97			
UNIT: [1] [2] []		STATE: FL	NOTIFICATION TIME: 15:32 [ET]			
RX TYPE: [1] CE, [2] CE			EVENT DATE: 12/14/97			
NRC NOTIFIED BY: DAVID FIELDS			EVENT TIME: 15:15 [EST]			
HQ OPS OFFICER: BOB STRANSKY			LAST UPDATE DATE: 12/15/97			
EMERGENCY CLASS: NOT APPLICABLE		NOTIFICATIONS				
10 CFR SECTION: NINF INFORMATION ONLY		PAUL FREDRICKSON RDO				
UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
1	N	Y	100	POWER OPERATION	100	POWER OPERATION
2	N	Y	100	POWER OPERATION	100	POWER OPERATION

EVENT TEXT

72-HOUR NOTIFICATION IN ACCORDANCE WITH SITE ENVIRONMENTAL PROTECTION PLAN

AT 1515 ON 12/14/97, A MANATEE WAS SPOTTED IN THE PLANT INTAKE CANAL. THE FLORIDA STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION WAS CONTACTED, AND AT 1330 ON 12/15/97, THE ANIMAL WAS CAPTURED AND RELEASED UNHARMED INTO THE INDIAN RIVER. THE LICENSEE IS REPORTING THIS UNUSUAL OCCURRENCE IN ACCORDANCE WITH SECTION 4.1 OF THE SITE ENVIRONMENTAL PROTECTION PLAN. THE NRC RESIDENT INSPECTOR HAS BEEN INFORMED BY THE LICENSEE.



Department of Environmental Protection

Jeb Bush
Governor

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000
15 January 1999

David B. Struhs
Secretary

Dr. Jonathan C. Gorham
Quantum Resources, Inc.
Land Utilization Department
6501 South Ocean Drive
Jensen Beach, Florida 34957

Post-It* Fax Note	7671	Date	2/16/99	# of pages	3
To	Bill Gleaves	From	George Madde		
Co./Dept	ORC NLR RP 2-	Co.	FPL		
Phone #	801-415-1479	Phone #	561-467-7151		
Fax #		Fax #			

Dear Jonathan:

Enclosed is your 1999 marine turtle permit issued by the Florida Department of Environmental Protection (FDEP). Please note the Special Conditions attachment of your permit. As with all permitted activities, the special conditions may only be conducted by authorized personnel listed on the permit.

In order to activate your 1999 permit, please return the attached signature page indicating that you and all personnel listed on your permit have read and understand the guidelines and accept the responsibilities associated with your marine turtle permit. Please remember that you are responsible for training all personnel authorized on your permit in accordance with the FDEP Marine Turtle Conservation Guidelines. If you need extra copies of the guidelines, please contact the Tequesta office.

Please note that all requests for permit activity, research and/or personnel amendments must be submitted in writing to FDEP. Activity and research project amendments may require considerable time for processing; please plan accordingly when submitting requests for these types of amendments. For personnel amendments, please use the personnel amendment form (copy enclosed). Be sure to include addresses and telephone numbers for all personnel additions. All permit related correspondence (including the signature page) should be sent to the FDEP Tequesta office at 19100 SE Federal Highway, Tequesta, Florida 33469.

If you have any questions regarding the enclosed information, please contact Beth Morford at (561) 575-5407. Thank you for your continued dedication and assistance with the marine turtle protection program.

Sincerely,

DIVISION OF MARINE RESOURCES

Robbin Trindell, Ph.D.
Biological Administrator
Bureau of Protected Species Management

cc: Beth Morford



Department of Environmental Protection

Jeb Bush
Governor

David B. Struhs
Secretary

MARINE TURTLE PERMIT

Dr. Jonathan C. Gorham
Quantum Resources, Inc.
Land Utilization Department
6501 South Ocean Drive
Jensen Beach, FL 34957

TP #099

Permit Expires: 31 January 2000

Renewal, permitted activities unchanged.

Authorized To: (1) conduct nesting surveys, (2) conduct net capture, (3) capture turtles by hand, (4) tag and release turtles, (5) relocate nests, (6) rescue and release hatchlings, (7) conduct stranding/salvage activities.

Authorized Nesting Survey Area: South Hutchinson Island from Ft. Pierce Inlet south to approximately 150 yards north of Normandy Beach access (Index Nesting Beach Survey zones A through S).

Authorized Research Projects: (1) St. Lucie Nuclear Power Plant intake canal monitoring program, ongoing.

Authorized Personnel: J. Gorham, M. Bresette, J. Toebe, S. Foster, D. Singewald.

General Conditions: Permitted individuals must adhere to the FDEP marine turtle permit guidelines developed under a Section 6 Cooperative Agreement between FDEP and the U.S. Fish and Wildlife Service.

Special Conditions: See Attached Special Conditions.

David W. Arnold

David W. Arnold, Chief
Bureau of Protected Species Management
Division of Marine Resources

2-1-99

Date

cc: Sandy MacPherson, Southeast Regional Sea Turtle Coordinator, USFWS
FMP, District(s) 2
FDEP, Tequesta Office

**1999 Special Conditions for
Florida Department of Environmental Protection
Marine Turtle Permit Number 099**

- 1) All live strandings (e.g., sick or injured turtles) must be transferred immediately to a state authorized sea turtle rehabilitation facility following consultation with FDEP personnel in Tequesta.
- 2) While the tangle net is deployed it shall be closely and thoroughly inspected via boat at least once per hour.
- 3) Netting effort shall be conducted for a minimum of 8 hours per day. Netting effort shall be increased to a minimum of 12 hours per day or during daylight hours, whichever is less, and 7 days per week if: 1) an adult turtle occurs in the canal during mating or nesting season (March through September), 2) a turtle remains in the canal for more than one week, 3) a leatherback occurs in the canal, or 4) an apparently weak or injured turtle occurs in the canal.
- 4) Capture efforts shall be increased if a turtle swims west of the barrier net at the A1A bridge. Every effort should be made to capture turtles before they enter the power plant's intake wells. If a turtle enters an intake well, dip nets or other non-injurious methods should be used to remove the turtle.
- 6) All turtles removed from the canal must be photographed both dorsally and ventrally.
- 7) All dead turtles recovered from the canal, regardless of condition, must be placed on ice and held for transfer to FDEP personnel. FDEP shall be notified within 12 hours of recovery.
- 8) Each of the gratings at the unit 1 and 2 intake wells shall be visually checked at least four times each 24-hour period. (This condition will remain in effect until FDEP receives written notification from the National Marine Fisheries Service that this issue has been resolved in the Biological Opinion for the St. Lucie Power Plant.)

→ maximum of 3x per day min

ANPO U-1 LOG READINGS

DATE: 01/08/99

SEQ STA	STATION DESCRIPTION EQUIPMENT ID MISCELLANEOUS	UNITS MINIMUM MAXIMUM TOLERANCE	TIME	READING	OPERATOR	NOTES
16 16	LUBE WTR STRAINER SS-21-3B1 D/P PI-22-27B1 MINUS PI-21-28B1	PSID 0 3	01:00 09:00 17:00	1 .5 .6	Oliver, Chuck Brayer, Keith Glover, Bob	
17 16	LUBE WTR STRAINER SS-21-3B2 D/P PI-21-27B2 MINUS PI-21-28B2	PSID 0 3	01:00 09:00 17:00	1 .5 .6	Oliver, Chuck Brayer, Keith Glover, Bob	
18 18	1A ICW PUMP DISCH PRESS PI-21-6A	PSI 30 60	01:00 09:00 17:00	48 47 47	Oliver, Chuck Brayer, Keith Glover, Bob	
19 19	1C ICW PUMP DISCH PRESS PI-21-6C	PSI 30 60	01:00 09:00 17:00	STNBY STNBY STNBY	Oliver, Chuck Brayer, Keith Glover, Bob	
20 20	1B ICW PUMP DISCH PRESS PI-21-6B	PSI 30 60	01:00 09:00 17:00	49 48 47	Oliver, Chuck Brayer, Keith Glover, Bob	
21 27	CHECK FOR TURTLES IN THE INTAKE WELLS IF TURTLE IS FOUND INFORM ANPS TO CALL THE TURTLE BIOLOGIST	PERFORMED	01:00 09:00 17:00	PERFORMED PERFORMED PERFORMED	Oliver, Chuck Brayer, Keith Glover, Bob	
22 17	INTAKE WATER LEVEL	FT -7	01:00 09:00 17:00	-0.8 -2.57 -2.6	Oliver, Chuck Brayer, Keith Glover, Bob	CAN NOT READ BELOW -1.4 CAN NOT READ BELOW -1.4 CAN NOT READ BELOW -1.4
23 21	N2 TUBE TRAILER PRESS	PSI 1000 2500	01:00 09:00 17:00	1660 1660 1660	Oliver, Chuck Brayer, Keith Glover, Bob	
24 22	N2 STOR TANK PRESS (DEWARI) PI-29-2B	PSI 160 200	01:00 09:00 17:00	196 198 198	Oliver, Chuck Brayer, Keith Glover, Bob	
26 23	N2 STOR TANK LEVEL (DEWARI) LI-29-1	" H2O 25 200	01:00 09:00 17:00	114 108 106	Oliver, Chuck Brayer, Keith Glover, Bob	
26 32	UNIT 1 H2 HEADER PRESSURE	PSI 96 110	01:00 09:00 17:00	106 106 106	Oliver, Chuck Brayer, Keith Glover, Bob	
27 26	UNIT 2 H2 HEADER PRESSURE	PSI 96 110	01:00 09:00 17:00	106 108 106	Oliver, Chuck Brayer, Keith Glover, Bob	
28 24	H2 TUBE TRAILER PRESS	PSI 200 2500	01:00 09:00 17:00	660 620 620	Oliver, Chuck Brayer, Keith Glover, Bob	
29 12	H2 TRAILER GROUNDING STRAP INSTALLED H2 TRAILER GRND STRAP PLACE A "D" IN THE BOX IF GRNDING STRAP INSTALLED ON TRAILER		01:00	PERFORMED	Oliver, Chuck	
30 30	CAUSTIC STORAGE TANK LEVEL LIS-61-4	GAL.	01:00	6676	Oliver, Chuck	
31 31	ACID STORAGE TANK LEVEL LIS-61-6	GAL	01:00	4250	Oliver, Chuck	

*SI (SPECIAL INSTRUCTIONS)

ABNORMAL READINGS

APPROVERS: 01:00: Casias, Bill 09:00: Langnee, M. 17:00: Klauck, J

REMARKS:

ANPO U-1 LOG READINGS

Check with Claudia

DATE: 02/11/99

OPS Log.

PAGE 2 OF 3

SEQ STA	STATION DESCRIPTION EQUIPMENT ID MISCELLANEOUS	UNITS MINIMUM MAXIMUM TOLERANCE	TIME	READING	OPERATOR	NOTES
16 16	LUBE WTR STRAINER SS-21-3B1 D/P PI-22-27B1 MINUS PI-21-26B1	PSID 0 3	01:00 09:00	1 1	Colando, Joe Burrell, Bill	
17 16	LUBE WTR STRAINER SS-21-3B2 D/P PI-21-27B2 MINUS PI-21-26B2	PSID 0 3	01:00 09:00	1 1	Colando, Joe Burrell, Bill	
18 18	1A ICW PUMP DISCH PRESS PI-21-5A	PSI 30 60	01:00 09:00	41.5 42	Colando, Joe Burrell, Bill	
19 19	1C ICW PUMP DISCH PRESS PI-21-5C	PSI 30 60	01:00 09:00	37 37	Colando, Joe Burrell, Bill	
20 20	1B ICW PUMP DISCH PRESS PI-21-5B	PSI 30 60	01:00 09:00	STNBY STNBY	Colando, Joe Burrell, Bill	
21 27	CHECK FOR TURTLES IN THE INTAKE WELLS IF TURTLE IS FOUND INFORM ANPS TO CALL THE TURTLE BIOLOGIST	PERFORMED	01:00 09:00	PERFORMED PERFORMED	Colando, Joe Burrell, Bill	
22 17	INTAKE WATER LEVEL	FT -7 8	01:00 09:00	-2.0 -2.0	Colando, Joe Burrell, Bill	CANNOT READ BELOW -.8 FEET CANNOT READ BELOW -.8 FEET
23 21	N2 TUBE TRAILER PRESS	PSI 1000 2500	01:00 09:00	1900 1900	Colando, Joe Burrell, Bill	
24 22	N2 STOR TANK PRESS (DEWAR) PI-29-2B	PSI 150 200	01:00 09:00	199 200	Colando, Joe Burrell, Bill	
26 23	N2 STOR TANK LEVEL (DEWAR) LI-29-1	" H2O 26 200	01:00 09:00	86 78	Colando, Joe Burrell, Bill	
26 32	UNIT 1 H2 HEADER PRESSURE	PSI 95 110	01:00 09:00	110 110	Colando, Joe Burrell, Bill	
27 26	UNIT 2 H2 HEADER PRESSURE	PSI 95 110	01:00 09:00	106 106	Colando, Joe Burrell, Bill	
28 24	H2 TUBE TRAILER PRESS	PSI 200 2600	01:00 09:00	1200 1200	Colando, Joe Burrell, Bill	
29 12	H2 TRAILER GROUNDING STRAP INSTALLED H2 TRAILER GRND STRAP PLACE A "D" IN THE BOX IF GRNDING STRAP INSTALLED ON TRAILER		01:00	PERFORMED	Colando, Joe	
30 30	CAUSTIC STORAGE TANK LEVEL LIS-61-4	GAL.	01:00	6300	Colando, Joe	
31 31	ACID STORAGE TANK LEVEL LIS-61-6	GAL	01:00	6600	Colando, Joe	

*SI (SPECIAL INSTRUCTIONS) "ABNORMAL READINGS"

APPROVERS: 01:00: Casias, Bill

09:00:

REMARKS:

ANPO U-1

DATE:01/24/99

TIME:01:00

OPS Log.

PAGE 2 OF 3

SEQ STA	STATION DESCRIPTION	MIN/MAX TOL/UNITS	READING SCANNED OPERATOR	CLOCK DATE/TIME	NOTES
14 13	LUBE WTR STRAINER SS-21-3A1 D/P PI-21-27A1 MINUS PI-21-28A1	0 3 PSID	0 NO BARNES, TROY	01/23/99 23:32:56	
16 14	LUBE WTR STRAINER SS-21-3A2 D/P PI-21-27A2 MINUS PI-21-26A2	0 3 PSID	0 NO BARNES, TROY	01/23/99 23:32:58	
16 15	LUBE WTR STRAINER SS-21-3B1 D/P PI-22-27B1 MINUS PI-21-26B1	0 3 PSID	0 NO BARNES, TROY	01/23/99 23:33:02	
17 16	LUBE WTR STRAINER SS-21-3B2 D/P PI-21-27B2 MINUS PI-21-26B2	0 3 PSID	1 NO BARNES, TROY	01/23/99 23:33:06	
18 18	PI-21-6A 1A ICW PUMP DISCH PRESS	30 60 PSI	43 NO BARNES, TROY	01/23/99 23:33:52	
19 19	PI-21-6C 1C ICW PUMP DISCH PRESS	30 60 PSI	38 NO BARNES, TROY	01/23/99 23:34:06	
20 20	PI-21-6B 1B ICW PUMP DISCH PRESS	30 60 PSI	STNBY NO BARNES, TROY	01/23/99 23:34:17	
21 27	CHECK FOR TURTLES IN THE INTAKE WELLS IF TURTLE IS FOUND INFORM ANPS TO CALL THE TURTLE BIOLOGIST	PERFORMED	PERFORMED NO BARNES, TROY	01/23/99 23:34:44	
22 17	INTAKE WATER LEVEL	-7 8 FT	OOS NO BARNES, TROY	01/23/99 23:34:55	CANNOT READ BELOW -.8 FEET
23 21	N2 TUBE TRAILER PRESS	1000 2600 PSI	2250 NO BARNES, TROY	01/23/99 23:35:35	
24 22	PI-29-28 N2 STOR TANK PRESS (DEWAR)	160 200 PSI	188 NO BARNES, TROY	01/23/99 23:36:51	
25 23	LI-29-1 N2 STOR TANK LEVEL (DEWAR)	25 200 " H2O	126 NO BARNES, TROY	01/23/99 23:36:54	

ANPO U-2

DATE: 02/09/99

TIME: 17:00

OPS log

PAGE 2 OF 2

SEQ STA	STATION DESCRIPTION	MIN/MAX TOL/UNITS	READING SCANNED OPERATOR	CLOCK DATE/TIME	NOTES
13 7	PI-21-2B 2B1 CWP DISCH PRESS	3 11 PSI	6.0 NO RUCKS, RON	02/09/99 18:00:46	
14 11	FIS-21-1B LUBE WATER FLOW TO 2B1 CWP	6 11 GPM	PWO NO RUCKS, RON	02/09/99 18:00:46	ERRATIC INDICATION W/R#99001288
15 12	FIS-21-2B LUBE WATER FLOW TO 2B2 CWP	6 11 GPM	8.1 NO RUCKS, RON	02/09/99 18:00:48	WR #08010310 INDICATES INCORRECT FLOW
16 8	PI-21-3B 2B2 CWP DISCH PRESS	3 11 PSI	6.2 NO RUCKS, RON	02/09/99 18:00:50	
17 17	LOCAL RECORDER ICW PUMP HOUSE AMBIENT TEMP NOTIFY ANPS IF TEMP APPROACHES 120 DEG.	120 DEG	80.2 NO RUCKS, RON	02/09/99 18:00:52	
18 13	PI-21-5A 2A ICW PUMP DISCH PRESS	36 66 PSI	54 NO RUCKS, RON	02/08/99 18:00:53	
19 14	PI-21-5C 2C ICW PUMP DISCH PRESS	36 66 PSI	STNBY NO RUCKS, RON	02/09/99 18:00:55	
20 15	PI-21-5B 2B ICW PUMP DISCH PRESS	36 66 PSI	48 NO RUCKS, RON	02/09/99 18:00:57	
21 16	CHECK FOR TURTLES IN THE INTAKE WELLS IF TURTLE IS FOUND INFORM ANPS TO CALL THE TURTLE BIOLOGIST	PERFORMED	PERFORMED NO RUCKS, RON	02/09/99 18:00:58 <i>(17:00 rounds)</i>	
22 25	LOCAL GAUGE GAS DETECTOR METER FOR 2A MAIN XFMR IF THE READING IS > 0 CONTACT ANPS TO LOOK AT ONDP 2-0910031	0 cc	0 NO RUCKS, RON	02/08/99 18:01:00	
23 24	LOCAL GAUGE GAS DETECTOR METER FOR 2B MAIN XFMR IF THE READING IS > 0 CONTACT ANPS TO LOOK AT ONDP 2-0810031	0 cc	0 NO RUCKS, RON	02/09/99 18:01:02	

- 1998 Florida Permit says 8 hours.
- 1999 Permit not received. Waiting for

NDMS

□ □ X

NDMS

02/12/99 08:19:50

Enter/Edit Station Parameters

File Name: ANPOU1 Tour Name: ANPO U-1 Scope: Active Only

Station No.: 27 Description: CHECK FOR TURTLES IN THE INTAKE WELLS
Sequence No.: 21

Equipment ID: [redacted] Location: U-1 INTAKE

Minimum: [redacted] Maximum: [redacted]

Tolerance: [redacted] Stations: [redacted]

Units: PERFORMED Miscellaneous: IF TURTLE IS FOUND
INFORM ANPS TO CALL THE TURTLE BIOLOGIST

Appl. Times: XXX (X)
01:00 - N/A
09:00 - N/A
17:00 - N/A

Scan Code: [redacted]

Days: SMTWRES
XXXXXXXX -or-

1111111122222222233
1234567890123456789012345678901

F1 Help | F2 Inst | F3 Expr | F4 Scop | F5 GoTo | F6 Ins | F7 Inac | F8 Copy | F9 Move | F10 Exit

Date	7671
# of Pages	
From	G. M. [redacted]
Co.	PC
Co/Dept.	NPC RR 2
Phone #	415-1475
Fax #	861-467-7155