

50-335

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Mr. Dennis L. Ziemann		FROM: Florida Power & Light Company Miami, Florida Robert E. Uhrig		DATE OF DOCUMENT 4/8/77
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PROP		INPUT FORM		NUMBER OF COPIES RECEIVED 156160

## DESCRIPTION

Ltr. trans the following:

(1-P)

## PLANT NAME:

St. Lucie Unit No. 1

RJL

## ENCLOSURE

Consists of information concerning the  
Unit No. 1 steam generator operating  
history.....

(2-P)

ACKNOWLEDGED  
DO NOT REMOVE

## SAFETY

## FOR ACTION/INFORMATION

## ENVIRO

ASSIGNED AD:		ASSIGNED AD:	
BRANCH CHIEF:	Ziemann (S)	BRANCH CHIEF:	
PROJECT MANAGER:	Silber	PROJECT MANAGER:	
LIC. ASST. :	DSS	LIC. ASST. :	

## INTERNAL DISTRIBUTION

REG. FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
NRC PDR	HEINEMAN	TEDESCO	ENVIRO ANALYSIS
T & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
OELD		LAINAS	
GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
MIPC	MACARRY	KIRKWOOD	ERNST
CASE	BOSNA		BALLARD
HANAUER	SIHWIL	OPERATING REACTORS	YOUNGBLOOD
HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	GAMMILL
BOYD	ROSS	EISENHUT	STAPP
P. COLLINS	NOVAK	SHAO	HULMAN
HOUSTON	ROSZTOCZY	BAER	
PETERSON	CHECK	BUTLER	SITE ANALYSIS
MELTZ		GRIMES	VOLLMER
HEITEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		J. COLLINS
	RUTBERG		KREGER

## EXTERNAL DISTRIBUTION

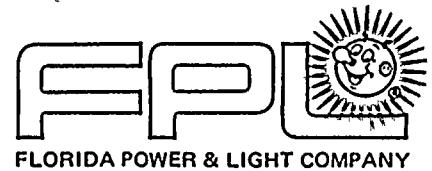
## CONTROL NUMBER

LPDR: Ft Pierce, FL	NAT. LAB:	BROOKHAVEN NAT. LAB.	
TIC:	REG V. IE	ULRIKSON (ORNL)	
NSIC:	LA PDR		
ASLB:	CONSULTANTS:		
ACRS 16 CYS HOLDING/SENT AS CAP B			

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April 8, 1977  
L-77-111



Office of Nuclear Reactor Regulation  
Attn: Dennis L. Ziemann, Chief  
Operating Reactors Branch No. 2  
Division of Operating Reactors  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Ziemann:

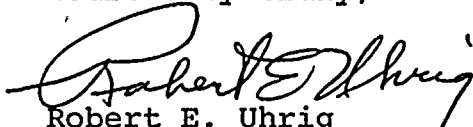
Regulatory

File Cy

Re: St. Lucie Unit No. 1  
Docket No. 50-335  
Steam Generator Operating History

In response to a request from Mr. R. D. Silver of your office, attached is information concerning the St. Lucie Unit No. 1 steam generator operating history.

Yours very truly,

  
Robert E. Uhrig  
Vice President

REU/LLL/hlc  
Attachment

cc: Robert Lowenstein, Esq.



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a. Significant operating history

1. O. L. date - 3/1/76
2. Full power operation - 2/19/77
3. Major period(s) of downtime (non-refueling) - 7/10/76 to 12/10/76  
Outage to replace burnable poison pins in fuel assemblies

b. Materials of construction for major secondary system components

1. S. G. tubes - Inconel 600
2. S. G. tube sheet - Carbon steel (Inconel clad on primary side)
3. S. G. tube support plates - Carbon steel
4. Condenser tubes - Alum-Brass (90-10 Cu-Ni used in air removal section)
5. Other - Feedwater heater tubes: Admiralty (6 heaters);  
90-10 Cu-Ni (2 heaters); Monel (2 heaters). All have steel shell.

c. Operational history of secondary water treatment

1. Period of use of phosphates - None
2. Period of use of AVT - All
3. Period of use of condensate demineralization - None
4. Other - Hydrazine for oxygen control and ammonia for pH control

d. Condenser cooling water - typical chemical composition

Cooling water is straight seawater (Atlantic Ocean).  
19,800 ppm chlorides and 6.65 ppm Dissolved Oxygen  
See attached chemical analysis

e. History of significant condenser tube leakage

1. Date discovered - About 4 events between 12/76 and 3/77
2. How discovered - Condenser and steam generator conductivity
3. Leakage associated - Approximately 10 condenser tubes have been plugged.

f. Denting history

1. Date discovered - None
2. How discovered - None
3. Leakage associated (gpm) - None

g. Steam Generator Tube plugging history

1. Dates - None
2. Number of tubes - None

h. Operating restrictions imposed on the plant due to degraded S.G. conditions.

None



ATTACHMENT

d. (Continued)

Condenser cooling water - typical chemical composition

	<u>(mg/l)</u>
Arsenic.....	< 0.001
Cadmium.....	< 0.02
Chromium.....	< 0.02
Copper.....	< 0.02
Iron.....	0.08
Lead.....	< 0.05
Mercury.....	< 0.0002
Nickel.....	< 0.02
Zinc.....	0.05

