



April 21, 1977

PRN-LI-77-118

Central File

50-335

Mr. Norman C. Moseley, Director, Region II
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
230 Peachtree Street, N. W., Suite 1217
Atlanta, Georgia 30303

Dear Mr. Moseley:

REPORTABLE OCCURRENCE 335-77-22
ST. LUCIE UNIT 1
DATE OF OCCURRENCE: APRIL 8, 1977

ATMOSPHERIC STEAM DUMPS

The attached Licensee Event Report is being submitted in accordance with Technical Specification 6.9 to provide prompt notification of the subject occurrence.

Very truly yours,

A. D. Schmidt
A. D. Schmidt
Vice President
Power Resources

MAS/cpc

Attachment

cc: Robert Lowenstein, Esquire
Director, Office of Inspection and Enforcement (40)
Director, Office of Management Information and
Program Control (3)

AO 4
60

CONTROL BLOCK:

1					6
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(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME:

F	L	S	L	S	1
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 LICENSE NUMBER:

0	0	-	0	0	0	0	0	-	0	0
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 LICENSE TYPE:

4	1	1	1	1
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 EVENT TYPE:

0	1
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CONT:

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 CATEGORY:

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 REPORT TYPE:

T

 REPORT SOURCE:

L

 DOCKET NUMBER:

0	5	0	-	0	3	3	5
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 EVENT DATE:

0	4	0	8	7	7
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 REPORT DATE:

0	4	2	2	7	7
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EVENT DESCRIPTION

1 Design studies have shown that the installed atmospheric steam dump valves do not meet
2 the criteria of FSAR section 10.3.2 for cooldown to the shutdown cooling window. This
3 would present a problem only in the unlikely event that offsite power is unavailable for
4 an extended period of time, thereby removing the main condenser as the normal heat sink.
5 Under such conditions, cooldown to the shutdown cooling window can be achieved by

SYSTEM CODE:

H	J
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 CAUSE CODE:

B

 COMPONENT CODE:

V	A	L	V	E	X
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 PRIME COMPONENT SUPPLIER:

A

 COMPONENT MANUFACTURER:

W	2	5	5
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 VIOLATION:

N

CAUSE DESCRIPTION

8 The cause of this occurrence was a design error in the sizing of the atmospheric steam
9 dump valves (2 valves). Corrective actions being considered are: (1) increase the
0 size of the valve internals, (2) replace the present valves with larger valves, and

FACILITY STATUS:

G

 % POWER:

0	0	0
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 OTHER STATUS:

NA

 METHOD OF DISCOVERY:

c

 DISCOVERY DESCRIPTION:

Engineering Design Review

FORM OF ACTIVITY RELEASED:

Z

 CONTENT OF RELEASE:

Z

 AMOUNT OF ACTIVITY:

NA

 LOCATION OF RELEASE:

NA

PERSONNEL EXPOSURES: NUMBER:

0	0	0
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 TYPE:

Z

 DESCRIPTION:

NA

PERSONNEL INJURIES: NUMBER:

0	0	0
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 DESCRIPTION:

NA

PROBABLE CONSEQUENCES:

NA

LOSS OR DAMAGE TO FACILITY: TYPE:

Z

 DESCRIPTION:

NA

PUBLICITY:

NA

ADDITIONAL FACTORS:

See Page Two for continuation of Event Description and Cause Description.

EVENT DESCRIPTION (Continued)

augmenting the relieving capacity of the atmospheric steam dumps as described in the Cause Description. This is the first reportable occurrence at St. Lucie Unit 1 involving a deficiency in the steam dump capability.

(335-77-22)

CAUSE DESCRIPTION (Continued)

(3) re-evaluate the design of the Shutdown Cooling System (SDC) to determine if transition to SDC can take place at a higher temperature. Until the atmospheric steam dump capacity deficiency is corrected, the following interim procedures have been instituted: (1) upon loss of offsite power with 116,000 gallons in the condensate storage tank, immediately commence boration and cooldown, (2) when cooling down concurrent with a loss of offsite power, use the secondary steam dump system at about 400 F RCS temperature when condensate storage tank level is below 116,000 gallons, and (3) administratively maintain condensate storage tank level at or above 210,000 gallons to minimize the need to use the secondary steam dump system. A followup report will be submitted when the final corrective action has been determined.