

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9409210165 DOC. DATE: 94/09/09 NOTARIZED: NO DOCKET # 05000389  
FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.  
AUTH. NAME: SAGER, D.A. AUTHOR AFFILIATION: Florida Power & Light Co.  
RECIP. NAME: RECIPIENT AFFILIATION: Document Control Branch (Document Control Desk)

SUBJECT: Special rept: on 940823 & 25, RAB exhaust sys WRGM RM-26-90 declared out of svc. Caused by intermittent communication due to power supply regulator failure. Chemistry Procedure C-93 implemented & portable monitor installed.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2  
TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

|           | RECIPIENT ID CODE/NAME | COPIES |      | RECIPIENT ID CODE/NAME | COPIES |      |
|-----------|------------------------|--------|------|------------------------|--------|------|
|           |                        | LTR    | ENCL |                        | LTR    | ENCL |
|           | PD2-2 PD               | 1      | 1    | NORRIS, J              | 1      | 1    |
| INTERNAL: | ACRS                   | 1      | 1    | AEOD/ROAB/DSP          | 2      | 2    |
|           | AEOD/SPD/RRAB          | 1      | 1    | FILE CENTER 02         | 1      | 1    |
|           | NRR/DE/EELB            | 1      | 1    | NRR/DE/EMEB            | 1      | 1    |
|           | NRR/DORS/OEAB          | 1      | 1    | NRR/DRCH/HHFB          | 1      | 1    |
|           | NRR/DRCH/HICB          | 1      | 1    | NRR/DRCH/HOLB          | 1      | 1    |
|           | NRR/DRSS/PRPB          | 2      | 2    | NRR/DSSA/SPLB          | 1      | 1    |
|           | NRR/DSSA/SRXB          | 1      | 1    | NRR/PMAS/IRCB-E        | 1      | 1    |
|           | RES/DSIR/EIB           | 1      | 1    | RGN2 FILE 01           | 1      | 1    |
| EXTERNAL: | EG&G BRYCE, J.H        | 2      | 2    | L ST LOBBY WARD        | 1      | 1    |
|           | NOAC MURPHY, G.A       | 1      | 1    | NOAC POORE, W.         | 1      | 1    |
|           | NRC PDR                | 1      | 1    | NUDOCS FULL TXT        | 1      | 1    |

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 504-2083) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTR 27 ENCL 27

P  
R  
I  
O  
R  
I  
T  
Y  
  
D  
O  
C  
U  
M  
E  
N  
T



September 9, 1994

L-94-232  
10 CFR 50.4

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

Gentlemen:

Re: St. Lucie Unit 2  
Docket No. 50-389  
Special Report  
Date of Event: August 23, 1994  
Reactor Auxiliary Building Exhaust System Wide Range  
Gas Monitor Out of Service for Greater than 72 Hours

The attached Special Report is being submitted pursuant to the requirements of St. Lucie Technical Specifications 3.3.3.1. and 6.9.2. This report provides notification of the failure of the Reactor Auxiliary Building Exhaust System Wide Range Gas Monitor (WRGM).

Very truly yours,

*C. A. Sager for*  
D. A. Sager  
Vice President  
St. Lucie Plant

DAS/JWH/kw

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

DAS/PSL #1200-94

198803  
9409210165 940909  
PDR ADCK 05000389  
S PDR  
an FPL Group company

1022

## SPECIAL REPORT

### I. TITLE

Reactor Auxiliary Building Exhaust System Wide Range Gas Monitor out of service for greater than 72 hours.

### II. INITIAL CONDITIONS

St. Lucie Unit 2 was at 100% power.

### III. EVENT SEQUENCE

On August 23, 1994, at 2107 hours, the Reactor Auxiliary Building Exhaust System Wide Range Gas Monitor (WRGM), RM-26-90, was declared out of service due to loss of communication. The WRGM is comprised of three detectors which monitor radioactive gases from normal operating levels up to calculated accident concentrations. Utility Instrument & Control (I&C) technicians found that the communication failure was intermittent. The suspect components that could have caused the failure were replaced. A system functional check was performed, and the system was declared back in service on August 24 at 1425 hours. On August 25, the WRGM failed again due to loss of communication and was declared out of service. On August 28, as per the Technical Specification 72 hour Limiting Condition of Operation, a plant approved alternate sampling method was installed to provide monitoring of the effluent flow stream.

### IV. CAUSE OF THE EVENT

Suspect WRGM components were replaced. Subsequent troubleshooting determined the root cause for the intermittent communication was most likely due to a power supply regulator failure.

### V. CORRECTIVE ACTIONS

1) The plant approved alternate sampling method, Chemistry Procedure C-93, was implemented. The "A" Emergency Core Cooling System WRGM's middle and high range gas channels were connected to the Reactor Auxiliary Building Exhaust System flow stream to provide monitoring capabilities.

2) Subsequently, a portable monitor was installed to provide dedicated monitoring of the Reactor Auxiliary Building Exhaust System flow stream.

3) The portable monitor will remain in operation until the Reactor Auxiliary Building Exhaust System WRGM's reliability has been verified. The Reactor Auxiliary Building Exhaust System WRGM will be returned to service before October 1, 1994.

4) A representative from the monitoring system's manufacturer was brought onsite to provide plant maintenance personnel with technical assistance.

5) The suspect power supply is being sent to an independent facility to have a root cause failure analysis performed.