

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8711040138 DOC. DATE: 87/10/30 NOTARIZED: NO DOCKET #  
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 AUTH. NAME AUTHOR AFFILIATION  
 WAGER, V. B. Florida Power & Light Co.  
 WOODY, C. O. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-027-00: on 870930, transportation of contaminated seal water injection filter 3B, caused radiation monitor R-11 to increase above setpoint resulting in actuation of containment vent isolation logic. W/881030 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

## NOTES:

|           | RECIPIENT<br>ID CODE/NAME | COPIES<br>LTTR ENCL | RECIPIENT<br>ID CODE/NAME | COPIES<br>LTTR ENCL |
|-----------|---------------------------|---------------------|---------------------------|---------------------|
|           | PD2-2 LA                  | 1 1                 | PD2-2 PD                  | 1 1                 |
|           | McDONALD, D               | 1 1                 |                           |                     |
| INTERNAL: | ACRS MICHELSON            | 1 1                 | ACRS MOELLER              | 2 2                 |
|           | AEOD/DOA                  | 1 1                 | AEOD/DSP/NAS              | 1 1                 |
|           | AEOD/DSP/ROAB             | 2 2                 | AEOD/DSP/TPAB             | 1 1                 |
|           | ARM/DCTS/DAB              | 1 1                 | DEDRO                     | 1 1                 |
|           | NRR/DEST/ADS              | 1 0                 | NRR/DEST/CEB              | 1 1                 |
|           | NRR/DEST/ELB              | 1 1                 | NRR/DEST/ICSB             | 1 1                 |
|           | NRR/DEST/MEB              | 1 1                 | NRR/DEST/MTB              | 1 1                 |
|           | NRR/DEST/PSB              | 1 1                 | NRR/DEST/RSB              | 1 1                 |
|           | NRR/DEST/SGB              | 1 1                 | NRR/DLPQ/HFB              | 1 1                 |
|           | NRR/DLPQ/QAB              | 1 1                 | NRR/DOEA/EAB              | 1 1                 |
|           | NRR/DREP/RAB              | 1 1                 | NRR/DREP/RPB              | 2 2                 |
|           | NRR/DRIS/SIB              | 1 1                 | NRR/PMAS/ILRB             | 1 1                 |
|           | REG FILE 02               | 1 1                 | RES DEPY GI               | 1 1                 |
|           | RES TELFORD, J            | 1 1                 | RES/DE/EIB                | 1 1                 |
|           | RGN2 FILE 01              | 1 1                 |                           |                     |
| EXTERNAL: | EG&G GROH, M              | 5 5                 | H ST LOBBY WARD           | 1 1                 |
|           | LPDR                      | 1 1                 | NRC PDR                   | 1 1                 |
|           | NSIC HARRIS, J            | 1 1                 | NSIC MAYS, G              | 1 1                 |

**LICENSEE EVENT REPORT (LER)**

|  |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
|--|----------|-----------|--|--------------------|-----------------|----------|----------|------------------|-----------------------|---|-------------------------------|----------|---|-----------|-------------------------------|--------------------|------------------------|--|------------------------|-----------------------------|--------------|--------------------|--|--|
| FACILITY NAME (1)<br><b>Turkey Point Unit 3</b>  |          |           |  |                    |                 |          |          |                  |                       | DOCKET NUMBER (2)<br><b>0 5 0 0 0 2 5 D</b> |                               |          |   |           |                               |                    |                        |  |                        | PAGE (3)<br><b>1 OF 0 3</b> |              |                    |  |  |
| TITLE (4) <b>Transport of Contaminated Seal Injection Filter Causes Actuation of Process Radiation Monitor R-11 Resulting in Containment Vent and Control Room Ventilation Isolation</b> |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| EVENT DATE (5)   |          |           | LER NUMBER (6)   |                    |                 |          |          | REPORT DATE (7)  |                       |   | OTHER FACILITIES INVOLVED (8) |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| MONTH  | DAY      | YEAR      | YEAR   | SEQUENTIAL NUMBER  | REVISION NUMBER | MONTH    | DAY      | YEAR             | FACILITY NAMES        |   |                               |          |   |           | DOCKET NUMBER(S)              |                    |                        |  |                        |                             |              |                    |  |  |
|  |          |           |  |                    |                 |          |          |                  | <b>Turkey Point 4</b> |   |                               |          |   |           | <b>0 5 0 0 0 2 5 1</b>        |                    |                        |  |                        |                             |              |                    |  |  |
| <b>0</b>   | <b>9</b> | <b>3</b>  | <b>0</b>   | <b>8</b>           | <b>7</b>        | <b>8</b> | <b>7</b> | <b>0</b>         | <b>2</b>              | <b>7</b>                                    | <b>0</b>                      | <b>0</b> | <b>N/A</b>  |           |                               |                    |                        |  | <b>0 5 0 0 0 0 0 0</b> |                             |              |                    |  |  |
| OPERATING MODE (9)   |          |           | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| <b>5</b>   |          |           | 20.402(b)  |                    |                 |          |          | 20.406(c)        |                       |   |                               |          | <input checked="" type="checkbox"/> 60.73(a)(2)(iv) |           |                               |                    |                        | 73.71(b)   |                        |                             |              |                    |  |  |
| POWER LEVEL (10)   |          |           | 20.406(a)(1)(i)  |                    |                 |          |          | 60.36(c)(1)      |                       |   |                               |          | 60.73(a)(2)(v)                                      |           |                               |                    |                        | 73.71(c)   |                        |                             |              |                    |  |  |
| <b>0 0 0</b>   |          |           | 20.406(a)(1)(ii)   |                    |                 |          |          | 60.36(c)(2)      |                       |   |                               |          | 60.73(a)(2)(vii)                                    |           |                               |                    |                        | OTHER (Specify in Abstract below and in Text, NRC Form 365A) |                        |                             |              |                    |  |  |
|  |          |           | 20.406(a)(1)(iii)  |                    |                 |          |          | 60.73(a)(2)(i)   |                       |   |                               |          | 60.73(a)(2)(viii)(A)                                |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
|  |          |           | 20.406(a)(1)(iv)   |                    |                 |          |          | 60.73(a)(2)(ii)  |                       |   |                               |          | 60.73(a)(2)(viii)(B)                                |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
|  |          |           | 20.406(a)(1)(v)  |                    |                 |          |          | 60.73(a)(2)(iii) |                       |   |                               |          | 60.73(a)(2)(ix)                                     |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| LICENSEE CONTACT FOR THIS LER (12)   |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| NAME   |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           | TELEPHONE NUMBER              |                    |                        |  |                        |                             |              |                    |  |  |
| <b>Virgil B. Wager, Licensing Engineer</b>   |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           | AREA CODE                     |                    |                        |  |                        |                             |              |                    |  |  |
|  |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           | <b>3 0 5</b>                  |                    | <b>2 4 6 - 6 4 7 6</b> |  |                        |                             |              |                    |  |  |
| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)   |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| CAUSE  | SYSTEM   | COMPONENT | MANUFACTURER   | REPORTABLE TO NPDs |                 | CAUSE    | SYSTEM   | COMPONENT        | MANUFACTURER          | REPORTABLE TO NPDs                          |                               | CAUSE    | SYSTEM  | COMPONENT | MANUFACTURER                  | REPORTABLE TO NPDs |                        | CAUSE  | SYSTEM                 | COMPONENT                   | MANUFACTURER | REPORTABLE TO NPDs |  |  |
| <b>D</b>   | <b>I</b> | <b>L</b>  | <b>R</b>   | <b>I</b>           | <b>1</b>        | <b>T</b> | <b>2</b> | <b>6</b>         | <b>0</b>              | <b>N</b>                                    |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
|  |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| SUPPLEMENTAL REPORT EXPECTED (14)  |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           | EXPECTED SUBMISSION DATE (15) |                    |                        | MONTH  | DAY                    | YEAR                        |              |                    |  |  |
| YES (If yes, complete EXPECTED SUBMISSION DATE)  |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |
| <input checked="" type="checkbox"/>  |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           | <b>X</b> NO                   |                    |                        |  |                        |                             |              |                    |  |  |
| ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)   |          |           |  |                    |                 |          |          |                  |                       |   |                               |          |   |           |                               |                    |                        |  |                        |                             |              |                    |  |  |

On September 30, 1987, at 2115, Unit 3 was in Cold Shutdown (Mode 5). The 3B Seal Water Injection Filter, which was contaminated, was replaced and transported through the Auxiliary Building past the sampling cabinet for the Radioactive Particulate Containment Radiation Monitor (PRM) R-11. This caused R-11 to increase above its setpoint which resulted in actuation of the containment vent and control room ventilation isolation logic (EIIIS: IL,JN). The containment vent isolated and the control room ventilation isolated and switched over to the recirculation mode, per design. A new Health Physics Procedure for removal and transportation of used Chemical and Volume Control System fluid filters has been written which incorporates instructions for transporting used filters via a travel path that does not pass by the R-11 sample cabinet to avoid the actuation of the R-11 setpoint trip. Additionally, maintenance procedure O-PMM-047.10, Chemical and Volume Control Charging And Letdown Systems Fluid Filter Replacement, has been revised to include a sign off step requiring notification of the control room before transporting the used filter from the area.

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PDR ADDCK 05000250  
S PDR

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

| FACILITY NAME (1)   | DOCKET NUMBER (2) | LER NUMBER (8) |                   |                 |  | PAGE (3) |    |     |
|---------------------|-------------------|----------------|-------------------|-----------------|--|----------|----|-----|
|                     |                   | YEAR           | SEQUENTIAL NUMBER | REVISION NUMBER |  |          |    |     |
|                     |                   |                |                   |                 |  |          |    |     |
| Turkey Point Unit 3 | 0 5 0 0 0 2 5 0   | 8 7            | — 0 2 7           | — 0 0           |  | 0 2      | OF | 0 3 |

TEXT (If more space is required, use additional NRC Form 363A's) (17)

EVENT

On September 30, 1987, Unit 3 was in Cold Shutdown (Mode 5). At 2115, a used contaminated seal water injection filter was transported from the Unit 3 charging pump room to the radioactive waste storage area in the Rad Waste Building. As the filter was being transported through the Auxiliary Building north hallway, Process Radiation Monitor (PRM) R-11, increased above its setpoint and resulted in actuation of the containment vent and control room ventilation isolation logic (EIIS: IL,JN). The containment vent isolated and the control room ventilation isolated and switched over to the recirculation mode, per design. The normal travel path, which is directed by the Health Physics Shift Supervisor (HPSS), would have transported the spent filter through the boric acid storage tank room (which is adjacent to the charging pump room), exiting the Auxiliary Building, and along the roadway to the Rad Waste Building. When the HPSS on duty prepared the required job pre-briefing, it was known that other maintenance activities were being performed in the boric acid storage tank room and access to the outside roadway from Unit 3 side of the Auxiliary Building was blocked by hydrolaser equipment. The decision was made to transport the spent filter through the Auxiliary Building north hallway. The HPSS, as acknowledged on the Radiation Work Permit (RWP), and in maintenance procedure O-PMM-047.10, Chemical and Volume Control Charging and Letdown Systems Fluid Filter Replacement, was aware of the potential for the local Area Radiation Monitors (ARM) to alarm. However, there was no emphasis on PRM R-11.

CAUSE OF EVENT

The travel path used to transport the spent filter through the Auxiliary Building north hallway passes by the sample cabinet for R-11. When the filter passed the cabinet it caused R-11 to increase above its setpoint and actuated the containment vent and control room ventilation isolation logic.

ANALYSIS OF EVENT

When R-11 increased above its setpoint the containment vent isolated and the control room ventilation isolated and switched over to the recirculation mode, per design. The event was caused by the performance of a routine maintenance activity, not by any condition that required the actuation of the containment vent and control room ventilation isolation logic. The work was accomplished by procedure and in accordance with the Radiation Work Permit under the supervision of the HPSS. Based on the above the health and safety of the public were not affected.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

| FACILITY NAME (1)   | DOCKET NUMBER (2) | LER NUMBER (6) |                   |                 | PAGE (3) |    |     |
|---------------------|-------------------|----------------|-------------------|-----------------|----------|----|-----|
|                     |                   | YEAR           | SEQUENTIAL NUMBER | REVISION NUMBER |          |    |     |
| Turkey Point Unit 3 | 0 5 0 0 0 2 5 0   | 8 7            | — 0 2 7           | — 0 0           | 0 3      | OF | 0 3 |

TEXT (If more space is required, use additional NRC Form 368A's) (17)

CORRECTIVE ACTION

- 1) A new Health Physics Instruction, HPI-8, Removal And Transfer Of Reactor Coolant System Filters was written and approved by the Plant Nuclear Safety Committee on October 8, 1987. The procedure specifically provides instructions for:
  - a) the requirement to notify the appropriate Health Physics supervision prior to commencing the replacement of Reactor Coolant System (RCS) filters.
  - b) specific travel paths for transporting spent RCS filters.
  - c) a specific checklist which includes the requirement to notify the Plant Supervisor-Nuclear and with the appropriate signoff steps for work tasks.
- 2) RWP's associated with RCS filter replacement have been revised to require compliance with HPI-8.
- 3) Maintenance Procedure O-PMM-047.10, Chemical And Volume Control Charging And Letdown Systems Fluid Filter Replacement, has been revised to include a signoff step requiring notification of the control room before transporting the used filters from the area.
- 4) The method used for transporting used filters will be reviewed to determine if enhancements can be made that would better address the ALARA considerations.

ADDITIONAL DETAILS

Similiar Occurrence: LER 250 87-005

Manufacturer: R-11, Tracer Lab; Instrument Model Number, MAP-1B



OCTOBER 30 1987

L-87-439  
10 CFR 50.73

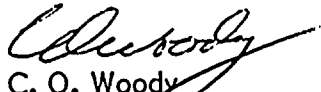
U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Unit 3  
Docket No. 50-250  
Reportable Event: 87-27  
Date of Event: September 30, 1987  
Transport of Contaminated Seal Injection Filter  
Causes Actuation of Process Radiation Monitor R-11  
Resulting in Containment Vent and Control Room Ventilation Isolation

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR 50.73 to provide notification of the subject event.

Very truly yours,

  
C. O. Woody  
Group Vice President  
Nuclear Energy

COW/SDF/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator, Region II, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant

IE22  
1/1