

OEAB EVENT TRACKING SHEET

CF
50 335

No Sort Specified

QUERY> "BENNER" \$ Assigned To & Assigned Date >= 06/09/94 & Assigned Date <= 06/09/94

Plant: SAINT LUCIE

Unit: |

Engineer: BENNER E.

Event: 6/25/93

Morning Report:

Briefing:

50.72#: 0

LER#: 050000009400000

PN#:

Other Notification: UPRSE #94041811.7 IR 50-335/93-18

System: ECCS

Component: Refueling Water Tank

OPERATING MODE

- ① - Operation
- 2 - Startup
- 3 - Hot Standby
- 4 - Hot Shutdown
- 5 - Cold Shutdown
- 6 - Refueling
- 7 - Other _____

SIGNIFICANCE

- A - Reactor Protection System
- ② - Safety-Related Cooling System
- C - Fuel Cladding
- D - Reactor Coolant Pressure Boundary
- E - Containment
- F - Plant Power
- G - Unexpected Plant Performance
- H - Other:

CAUSE

- ① - Equipment Failure
- 2 - Design or Installation Error
- 3 - Operating Error
- 4 - Maintenance Error
- 5 - External
- 6 - Other _____

EVENT TYPE

- SIG - Significant Event
- EOI - Event of Interest
- TBD - To Be Determined
- ② - Other

OTHER

POTENTIAL AO: NO Criterion: _____

Proposed By: BENNER E.
Engineer

EAB 2/8/95

Approved:

[Signature] 2/8/95
Section Leader

A. Chaffee
Branch Chief

Panel!

EVENTS ASSESSMENT PANEL

First Screening: 02/14/95

Closure:

Significance Description:

K Gray 02/17/95

REFUELING WATER TANK CORROSION (SEE ATTACHED PAGE).

141
9503010255 4pb
1A

G112

200000

COPY

940418II.7 ST. LUCIE - Refueling water tank corrosion

Description:

St. Lucie 1 refueling water tank corrosion could potentially prevent having a sufficient source of borated water for the safety injection system.

LER: None identified

50.72: None identified

I.R.: 50-335, 389/93-18

Regional contact: unspecified

DOCUMENT LOCATION & NAME: G:\EJB1\UPRSE 29.EFR

PSE:UPR

EVENT FOLLOW-UP ASSIGNMENT SHEET

ASSIGNMENT DATE: 06/09/94
ASSIGNED TO: BENNER E.
PLANT & UNIT: SAINT LUCIE, UNIT 1
EVENT DATE: 06/25/93
50.72 REPORT NO: _____
DAILY REPORT DATE/NO: _____
OTHER REPORT: UPRSE #940418II.7
Inspection Report 50-335, -389/93-18

EVENT SUMMARY AND SPECIFIC FOLLOW-UP ASSIGNMENT

REFUELING WATER TANK CORROSION (SEE ATTACHED PAGE).

DETERMINE DETAILS, PREVIOUS DISPOSITIONS (IF ANY), RISK SIGNIFICANCE (IF PRACTICAL), PREVIOUS SIMILAR EVENT DISPOSITIONS, AND ENFORCEMENT ACTIONS. PROPOSED EVENT CLASSIFICATION AND EVALUATE THE NEED FOR GENERIC COMMUNICATION. **INCLUDE THE NUMBER OF HOURS SPENT ON THIS ASSIGNMENT IN THE CLOSEOUT.**

CIRCLE THE APPLICABLE CASE:

SAFETY SIGNIFICANCE CLASSIFICATION: OTH YES EOI NO SIG NO AO NO

GENERIC CONCERN STATUS: NO IN # _____ BUL # _____ GL# _____

OR BRIEF: NO # _____

CLOSEOUT

While operators were performing a log data review, they identified a slow loss of water inventory from the 525,000 gallon refueling water tank (RWT) (Technical Specification minimum is 400,000 gallons). RWT water inventory had begun to drop by about 0.6 to 1.5 gpm on about June 15, 1993. The leak was nearly constant during the period of discovery and repair. It was determined that a total of about 55,000 gallons leaked before the leak was repaired. The cause of the leakage was a 5-mm hole corroded into the bottom of the RWT. Inspections found no indications of major tank integrity problems. The licensee repaired the RWT by epoxying an aluminum plate over the hole on July 17, 1993, and intends to institute a more permanent repair at a later date.

The analysis by PNL addressed the potential for a minor leak such as the one experienced (1.5 gpm), and also evaluated the potential for an RWT rupture (100 gpm, maximum makeup capability to the RWT). The risk assessment estimated an increase in core damage frequency (CDF) of 4.4% for the 1.5 gpm leak, and 0.5% for the 100 gpm rupture. These estimated increases in CDF assume that RWT tank repairs are ineffective due to corrosion within the remaining life of the plant. RWT level is indicated and annunciated in the control room, as well as being subject to a shiftly surveillance.

The evaluation also indicated that if the RWT does leak, it is highly likely that the plant staff will be effective in maintaining adequate RWT level pending completion of repairs.

This event is classified as OTHER. Approximately three hours (in addition to resources spent by PNL) were spent on this assignment.