- LIGENSEE EVENT HEPUH!
CONTROL BLOCK
1 6 LICENSEE
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
CATEGORY REPORT REPORT DOCKET NUMBER EVENT DATE REPORT
EVENT DESCRIPTION
In Mode 1 operation, the Reactor building was purged for a period of two hours and
fifty one minutes with the RB Purge Monitor RM-Al vacuum pump inoperable causing an
unmonitored radioactive release to the atmosphere contrary to Tech. Specs. 3.3.2.1,
Tables 3.3-3 and 3.3-4. Redundancy NA. third occurrence of this event as reported
(See additional factors)
SYSTEM CAUSE COMPONENT
AUSE DESCRIPTION
This event was caused by failures of the Purge Monitor RM-Al vacuum pump and the Monitor
initiated to recommend a positive indication to annunciate pump failure and to automatical- ly terminate purging and a revision to the containment equalization portion of OP-417 to 60 ensure vacuum pump operability will be initiated to preclude recurrence.
E 092 NA A R.B. Purge Duct High Radiatic Al.rm
FORM OF ACTIVITY CONTENT AMOUNT OF ACTIVITY LOCATION OF RELEASE
9 10 11 44 45 Reactor Bldg., Vent to atmosphere
ERSONNEL EXPOSURES
ERSONNEL INJURIES
11 12 BO
NA
SS OR DAMAGE TO FACILITY
P DESCRIPTION NA
NA
JOITIONAL FACTORS
LERs 77-74E and 77-105E. Purge immediately terminated upon discovery.
See attached Supplementary Information. 8003260784
HU HU

SUPPLEMENTARY INFORMATION

- Report No.: 50-302/77/116E
- Facility: Crystal River Unit #3
- Report Date: 26 September 1977
- 4. Occurrence Date: 18 September 1977
- 5. Identification of Occurrence:

An unmonitored radioactive release to the atmosphere contrary to Technical Specification 3.3.2.1, Tables 3.3-3 and 3.3-4.

6. Conditions Prior to Occurrence:

Mode 1 operation, Reactor Building purge in progress.

7. Description of Occurrence:

At 1850 on 15 September 1977 a weekly Reactor Building purge was initiated and was continuous to 0800 18 September 1977 when it was discovered that the vacuum pump for the Reactor Building purge monitor RM-Al had failed at 0509 18 September 1977. This constituted an unmonitored radioactive release to the atmosphere for a period of 2 hours and 51 minutes at a release rate of 35 microcuries per second. Upon discovery of the inoperable vacuum pump the purge was terminated immediately and a maintenance Work Request was initiated for repair of RM-Al vacuum pump.

8. Designation of Apparent Cause:

The cause of the occurrence was due to the failure of the RM-Al alarm indicator in the Control Center to annunciate vacuum pump failure, and personnel not responding to computer alarm of "RB Purge Duct high radiation level".

9. Analysis of Occurrence:

The health and safety of the plant and public were not affected as no Environmental Technica! Specification limit was exceeded and the release rate represented .005% of the maximum allowable instantaneous release rate.

10. Corrective Action:

A request to Production Engineering has been initiated for an investigation, evaluation and recommendation of positive action to be taken to ensure vacuum pump failure annunciation and purge termination. Corrective action to preclude recurrence will be taken upon receipt of recommendations. OP-417 Section on Containment Equalization will be revised to ensure operability of RM-Al vacuum pump.

11. Failure Data:

This constitutes the third occurrence of an unmonitored purge to this date, but it is the first occurrence of vacuum pump failure while purge was in progress. Refer to LERs 77-74E dated 26 July 1977 and 77-105E dated 12 September 1977.