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NRC FORM 366 (7.771

U. S NUCLEAR REGULATORY COMMISSION EXHIBIT A LICENSEE EVENT REPORT PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION 1111 CONTROL BLOCK: L 10 FILI Q RI PI 3 3 3 0 101-10101010101-1010 3 41111110 -1-3 0 1 CON'T 7 7 (0 1 2 0 7 8 9 0 1 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES While verifying RB purge release rate calculations, it was determined that 012 the release rate of the RB purge of 23 December 1977 exceeded the 100 [0]] microcuries per second limit as set by Table 3.3-4 of Terh Spec 3.3.2.1. 011 The calculated trip setpoint of the purge monitor, RM-F1, did not account 015 for efficiency changes with isotopic distribution and vacuum on the monitor, 0 6 Redundancy NA. and the trip setpoint was greater than the Tech Spec limit. 011 No safety hazard to plant or public as the release rate was 1.012% of limit set by ETS. First occurrence of this event. release rate was 0 3 CODE CAUSE CAUSE SUBCODE COMPONENT CODE [D] 13 SICI Z 2 2 2 2 2 2 2 5 9 REVISION OCCURPENCE SECUENTIAL CODE 0 1717 161 01 31 COMPONENT MANUFACTURE 020 01010 2 9 9 9 9 3 12 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS This occurrence was caused by the purge trip setpoint of the purge monitor 101 RM-Al being greater than the 100 microcuries per second limit. RM-Al trip TTT setpoint calculations now in effect compensate for monitor vacuum and a 112 change to Standard Tech Specs has been implemented and the 100 microcuries 1 3 per second limit has been deleted. 1 4 80 OTHER STATUS (30) MET-CO CP 2 500% ERY DESCRIPT DY (32 ATUS + PONER Chem/Rad setpoint verification 010 E C (31) 1 5 20 CONTENT. ACTIVITY AVOUNT OF ACTIVITY (35) LOCAT ON OF PELEASE (16) OF RELEASE RELEASED Z 33 Z 34 NA 16 30 13 PERSONNEL EXPOSURES Ga NUMBER 010101 80 PERSONNEL INJURIES NA 10 OSS OF OR DAVIAUE TO FACILITY () Z (1) NA 10 DESCRIPTION (1) NAC USE DILLY NG 1.1.1.1.1.1.1 NA (813) 866-4159 O Stewart PHONE . NAVE OF PREPARER.

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SUPPLEMENTARY INFORMATION

- 1. Report No.: 50-302/77-163/03L-0
- Facility: Crystal River Unit #3
- 3. Report Date: 20 January 1978
- 4. Occurrence Date: 23 December 1977 (discovered 24 December 1977)
- 5. Identification of Occurrence:

A purge of the Reactor Building with a purge rate greater than 100 microcuries per second contrary to Section 4A, Table 3.3-4 of Technical Specification 3.3.2.1.

6. Conditions Prior to Occurrence:

Mode 1 operation.

7. Description of Occurrence:

Upon verification of release rate calculations, based upon the data from weekly grab samples of the purge monitor RM-AL, it was determined that the release rate of the Reactor Building purge of 23 December 1977 was 138 microcuries per second. Technical Specification 3.3.2.1 requires that the trip setpoint of the Reactor Building purge monitor RM-AL terminate purges with release rates greater than 100 microcuries per second. The calculated trip setpoint of 100 microcuries per second did not account for the efficiency changes with Isotopic distribution and vacuum on the monitor.

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8. Designation of Apparent Cause:

The cause of this occurrence was the calculated release rate trip setpoint of RM-Al was actually greater than the 100 microcurie per second limit.

9. Analysis of Occurrence:

There were minimal safety implications as a result of this event as the release rate was .0.2% of the ETS site limit.

10. Corrective Action:

RM-Al trip setpoint calculations now in effect compensate for gaseous effluent monitor vacuum and a change to Standard Tech Specs was implemented subsequent to this occurrence, and the 100 microcuries per second release rate limit has been deleted. These changes should preclude recurrence of this event.

11. Failure Data:

This is the first occurrence of this event as prior release rates have not been verified using grab sample data. Previous reported gaseous release rates are presently being evaluated and corrected. Release rate data will be provided in Supplement #2 to the semi-annual effluent report for the period of 1-14-77 to 6-30-77.

