

NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: _____ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | F | L | C | R | P | 3 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5
 7 8 9 14 15 25 26 30 37 58

CON'T
 01 | L | 0 | 5 | 0 | - | 0 | 3 | 0 | 2 | 7 | 0 | 2 | 2 | 8 | 8 | 2 | 8 | 10 | 7 | 0 | 6 | 8 | 3 | 9
 7 8 9 60 61 65 66 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
 02 | At 1800 during routine inspection, a leak was discovered on the pressure side
 03 | of MUV-292 in the "heat affected area" of the weld. This created an event
 04 | contrary to T.S. 3.1.2.4.1. MUP-1A was secured and MUP-1C was started.
 05 | Maintenance was initiated and operability was restored at 1800 on 3/1/82.
 06 | There was no effect upon the health or safety of the general public. This
 07 | is the first reportable occurrence for this event and this is the first re-
 08 | port under this Specification.

09 | SYSTEM CODE: S F (11) CAUSE CODE: X (12) CAUSE SUBCODE: Z (13) COMPONENT CODE: P I P E X X (14) COMP. SUBCODE: A (15) VALVE SUBCODE: Z (16)
 17 | LER/RO REPORT NUMBER: 82 (21) SEQUENTIAL REPORT NO.: 013 (24) OCCURRENCE CODE: 03 (28) REPORT TYPE: L (30) REVISION NO.: 1 (32)
 ACTION TAKEN: X (18) FUTURE ACTION: X (19) EFFECT ON PLANT: C (20) SHUTDOWN METHOD: Z (21) HOURS: 0008 (22) ATTACHMENT SUBMITTED: Y (23) NRC-4 FORM SUB.: N (24) PRIME COMP. SUPPLIER: A (25) COMPONENT MANUFACTURER: Z 9199 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
 10 | Engineering evaluation confirmed the cause of this failure to be vibration.
 11 | Vibrations were found to be caused by fluid turbulence at the recirc. line
 12 | orifice & hydrogen bubbles resulting from fluid press. oscillations. Current
 13 | indications are that the initial short term corrective action taken has cor-
 14 | rected the problem. This revision documents results of eng. evaluation.

15 | FACILITY STATUS: Z (28) % POWER: 000 (29) OTHER STATUS: NA (30) METHOD OF DISCOVERY: B (31) DISCOVERY DESCRIPTION: Operator observation (32)
 16 | ACTIVITY CONTENT: Z (33) OF RELEASE: Z (34) AMOUNT OF ACTIVITY: NA (35) LOCATION OF RELEASE: NA (36)
 17 | PERSONNEL EXPOSURES: NUMBER: 000 (37) TYPE: (38) DESCRIPTION: NA (39)
 18 | PERSONNEL INJURIES: NUMBER: 000 (40) DESCRIPTION: NA (41)
 19 | LOSS OF OR DAMAGE TO FACILITY: TYPE: Z (42) DESCRIPTION: NA (43)
 20 | PUBLICITY ISSUED: N (44) DESCRIPTION: NA (45)

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 PDR ADOCK 05000302
 S PDR

NRC USE ONLY

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NAME OF PREPARER: R.H. Thompson PHONE: (813) 866-4318

SUPPLEMENTARY INFORMATION

Report No.: 50-302/82-013/03L-1

Facility: Crystal River Unit 3

Report Date: July 6, 1983

Occurrence Date: February 28, 1982

Identification of Occurrence: Failure to have two (2) operable Makeup Pumps, contrary to Technical Specification 3.1.2.4.1.

Conditions Prior to Occurrence: Mode 3 hot standby (0%)

Description of Occurrence: At 1800, during routine inspection, a leak was discovered on the pressure side of Makeup Valve 292, (MUV-292) in the "heat affected" area of the weld. MUV-292 is the recirculation line vent valve for Makeup Pump 1A. Makeup Pump 1A was secured, and Makeup Pump 1C was started. Maintenance was initiated, and operability was restored at 1800 on 3/1/82.

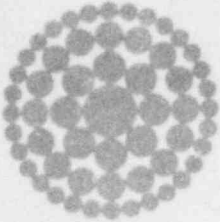
Designation of Apparent Cause: The cause of this event is vibration of the Makeup System. A subsequent engineering evaluation determined:

1. Vibration of the Makeup System caused through the wall fatigue cracks on cantilevered vent and drain lines.
2. The primary sources of vibration are as follows:
 - A. On the discharge side of the Makeup Pump - fluid turbulence at the recirculation line orifice.
 - B. On the suction side of the Makeup Pump - pipe vibration is flow induced. The vibration appears to be related to the presence of hydrogen bubbles which result from fluid pressure oscillations.

Analysis of Occurrence: The plant was in hot standby at the time of discovery, and there was no unplanned release. There was no effect upon the health or safety of the general public.

Corrective Action: Current indications are that the short term corrective action of adding supports and restraints at various places in the Makeup System piping has corrected the vibration problem.

Failure Data: This is the first reportable occurrence for this event and this is the first report under this specification.



USNRC REGION II
ATLANTA, GEORGIA

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**Florida
Power**
CORPORATION

July 6, 1983
3F-0783-05

Mr. James P. O'Reilly
Regional Administrator, Region II
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, GA 30303

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 82-013/03L-1

Dear Mr. O'Reilly:

Enclosed is Licensee Event Report No. 82-013/03L-1 and the attached supplementary information sheet, which are submitted in accordance with Technical Specification 6.9.1.9.b. This report supplies supplementary information to our initial report dated March 29, 1982.

Should there be any questions, please contact this office.

Sincerely,

G. R. Westafer
Manager,
Nuclear Licensing and Fuel Management

Thompson(W01)C3-3

Enclosure

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

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