

NRC FORM 366  
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

## LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 FLICRIP3 001-0000000-000 4111111 5  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T  
01 L 050-0302 041281 083085  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10  
02 At 2230 following a reactor trip, it was discovered that Main Steam Iso-  
03 lation Valve MSV-414 was inoperable contrary to T.S. 3.7.1.5 and 3.6.3.1.  
04 The affected penetration was isolated and maintenance was initiated.  
05 There was no effect upon the health or safety of the general public.  
06 This was the first occurrence for MSV-414 and this is the first event re-  
07 ported under T.S. 3.7.1.5 and the thirty-fifth event reported under  
08 T.S. 3.6.3.1.  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

09 CID E X VALLVOP C Z  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
SYSTEM CODE CAUSE CODE CAUSE SURCODE COMPONENT CODE COMP SUBCODE VALVE SUBCODE

17 1 01 022 03 X 1  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.

18 Z C Z 0000 Y N A R340  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRPD-4 FORM SUB PRIME COMP SUPPLIER COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27  
10 The cause of this event was due to the failure of the hydraulic cylinder  
11 on the actuation of MSV-414. Modifications and repairs were performed  
12 to improve valve operation and reliability for the MSIV's. No further  
13 corrective action is deemed necessary.  
14   
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

15 G 0000 NA A Operator observation  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

16 Z NA NA NA  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

17 0000 Z NA  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

18 0000 NA  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
PERSONNEL INJURIES NUMBER DESCRIPTION

19 Z NA  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

20 Y Newspaper release concerning valve on 4/16/81 &  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80  
PUBLICITY ISSUED DESCRIPTION

NAME OF PREPAREE D. G. Green 4/20/81  
PHONE (904) 795-6486

8509090231 850830  
PDR ADDCK 05000302  
S PDR

UPDATE REPORT - LAST REPORT DATED 5/11/81

SUPPLEMENTARY INFORMATION

Report No: 50-302/81-022/03X-1

Facility: Crystal River Unit 3

Report Date: August 30, 1985

Occurrence Date: April 12, 1981

Identification of Occurrence:

Main Steam Isolation Valve MSV-414 was inoperable contrary to Technical Specifications 3.7.1.5 and 3.6.3.1.

Conditions Prior to Occurrence:

Mode 3 Hot Standby (0%).

Description of Occurrence:

At 2230 following a Reactor trip which occurred during a Reactor trip recovery, Main Steam Isolation Valve MSV-414 was discovered to be inoperable. The affected penetration was isolated and maintenance was initiated.

Designation of Apparent Cause:

The cause of this event was due to the failure of the hydraulic cylinder on the actuator of MSV-414. This failure was caused by unbalanced flow forces acting on the valve disc while the valve was being opened with the plant in hot standby configuration. These flow forces apparently resulted from the lack of downstream pressure buildup as the valves are opened against high overseat pressure.

Analysis of Occurrence:

There was no effect upon the health or safety of the general public.

Corrective Action:

Modifications were performed to improve valve operation and reliability. MSV-414 was modified per MAR 79-9-74. The remaining MSIV's were modified per MAR 81-4-75. The functional test results were satisfactory and operability was restored at 0300 April 19, 1981.

Additionally, in order to assure that the integrity of the hydraulic cylinders is maintained, the following modifications were completed by August, 1985:

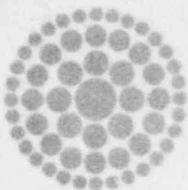
- 1) A bypass around MSIVs was installed to provide pressure equalization across the valve prior to opening, and

- 2) The opening time of all four MSIVs was increased to allow for pressure buildup in the downstream piping.

No further corrective action is deemed necessary.

Failure Data:

This was the first occurrence for MSV-414 and this is the first event reported under Technical Specification 3.7.1.5 and the thirty-fifth event reported under Technical Specification 3.6.3.1.



**Florida  
Power**  
CORPORATION

August 30, 1985  
3F0885-20

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Crystal River Unit 3  
Docket No. 50-302  
Operating License No. DPR-72  
Licensee Event Report No. 81-022, Revision 1

Dear Sir:

Enclosed is Revision 1 to Licensee Event Report (LER) No. 81-022 which is submitted voluntarily by Florida Power Corporation.

Should there be any questions, please contact this office.

Sincerely,

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

AEF/feb

Enclosure

cc: Dr. J. Nelson Grace  
Regional Administrator, Region II  
Office of Inspection & Enforcement  
U.S. Nuclear Regulatory Commission  
101 Marietta Street N.W., Suite 2900  
Atlanta, GA 30323

IE22  
1/1