NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

EXHIBIT A

LICENSEE EVENT REPORT

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

01 LICENSEE CODE: F L C R P 3 ② LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 ③ LICENSE TYPE: 4 1 1 1 1 ④ CAT: - - ⑤

CONT 01 REPORT SOURCE: L ⑥ DOCKET NUMBER: 0 5 0 - 0 3 0 2 ⑦ EVENT DATE: 0 7 2 8 8 0 ⑧ REPORT DATE: 0 8 0 4 8 0 ⑨

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES ⑩

02 On 28 July, in Mode 5, while performing OP-401, Core Flooding System, check valve
03 CFV-79 failed allowing approximately 500 gallons of liquid from the core flood
04 system to enter the nitrogen system via NGV-4. The liquid backflowed through
05 the nitrogen system into an unrestricted area and was released to the environment
06 via relief valve NGV-215. There was no affect upon the general public as a re-
07 sult of this event. This is the fourth occurrence of this type reported.
08

09 SYSTEM CODE: S F ⑪ CAUSE CODE: E ⑫ CAUSE SUBCODE: B ⑬ COMPONENT CODE: V A L V E X ⑭ COMP. SUBCODE: C ⑮ VALVE SUBCODE: A ⑯

⑰ LER RO REPORT NUMBER: EVENT YEAR: 8 0 — SEQUENTIAL REPORT NO.: 0 2 7 / OCCURRENCE CODE: 0 1 REPORT TYPE: T — REVISION NO.: 0

ACTION TAKEN: K ⑱ FUTURE ACTION: G ⑲ EFFECT ON PLANT: C ⑳ SHUTDOWN METHOD: Z ㉑ HOURS ㉒: 0 0 0 0 ATTACHMENT SUBMITTED: Y ㉓ NPRD-4 FORM SUB.: N ㉔ PRIME COMP. SUPPLIER: X ㉕ COMPONENT MANUFACTURER: N 4 2 5

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS ㉗

10 The apparent cause of this event is attributed to the failure of core flood
11 check valve, CFV-79, and the open position of low pressure nitrogen header
12 isolation valve, NGV-4, which is normally locked closed. Immediate isolation
13 was affected and decontamination of the spill area and affected piping started.
14 CFV-79 failure evaluation will be conducted and appropriate Operating Procedures
will be revised.

15 FACILITY STATUS: G ㉘ % POWER: 0 0 0 ㉙ OTHER STATUS ㉚: NA METHOD OF DISCOVERY: A ㉛ DISCOVERY DESCRIPTION ㉜: Operator Observation

16 ACTIVITY RELEASED: L ㉝ CONTENT OF RELEASE: M ㉞ AMOUNT OF ACTIVITY ㉟: 1.0 millicuries LOCATION OF RELEASE ㊱: Relief valve to environment

PERSONNEL EXPOSURES
17 NUMBER: 0 0 0 ㊲ TYPE: Z ㊳ DESCRIPTION ㊴: NA

PERSONNEL INJURIES
18 NUMBER: 0 0 0 ㊵ DESCRIPTION ㊶: NA

LOSS OF OR DAMAGE TO FACILITY ㊷
19 TYPE: L ㊸ DESCRIPTION: NA

PUBLICITY
20 ISSUED: Y ㊹ DESCRIPTION ㊺: 28 July 1980

NRC USE ONLY

Name of preparer: E. K. Neuschaefer PHONE: (904) 795-6486

(SEE ATTACHED SUPPLEMENTARY INFORMATION SHEET)

SUPPLEMENTARY INFORMATION

Report No. 50-302/80-027/01T-0

Facility: Crystal River Unit #3

Report Date: 4 August 1980

Occurrence Date: 28 July 1980

Identification of Occurrence:

Uncontrolled release of radioactive liquid to the environment exceeding ten (10) times the maximum permissible concentration for Co-60 averaged over a twenty-four (24) hour period and a loss of one (1) day or more of the operation of the facility.

Conditions Prior to Occurrence:

Mode 5 cold shutdown.

Description of Occurrence:

While performing OP-401, Core Flooding System, for the purpose of bubbling nitrogen through Core Flood Tank "A" for mixing prior to sampling, Core Flood Check Valve CFV-79 failed, allowing approximately 500 gallons of liquid from the core flood tank to enter the nitrogen system via the low pressure nitrogen header isolation valve NGV-4. The liquid backflowed through the nitrogen system into an unrestricted area and was released to the environment via nitrogen relief valve, NGV-215. Analysis of the liquid released determined it to contain 1.42 E-2 μCi/ml. Evaluations based on collected soil samples indicated that ≤20 gallons had been released, making the total activity released 1.07 mCi. Air samples taken immediately after discovery of the affected spill area indicated no airborne activity.

Designation of Apparent Cause:

The apparent cause of this event is attributed to the failure of Core Flood Check Valve CFV-79, and the open position of low pressure nitrogen header isolation valve, NGV-4, which is normally locked closed.

Analysis of Occurrence:

There was no affect upon the general public as a result of this event. The majority of the contamination has been cleaned up. Decontamination will continue until 10 CFR 20 limits have been met.

Corrective Action:

Perform decontamination of affected nitrogen system piping and localized spill area. Conduct a failure evaluation of core flood check valve CFV-79, and revise appropriate Operating Procedures to prevent recurrence of this type event.

Failure Data:

This is the fourth occurrence of this type reported; however, the first of this type involving a liquid release.

/rc