

## UPDATE REPORT - PREVIOUS REPORT DATA 04/19/83

NRC FORM 368  
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

## LICENSEE EVENT REPORT

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

01 FILTPS 4 2 00 - 00 00 00 00 - 00 0 3 4 1 1 1 1 4 5

LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 31 CAT 32

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REPORT SOURCE 30 31 DOCKET NUMBER 38 39 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 While lifting spent fuel assembly X-13 out of its designated rack in the Unit 4 spent

03 fuel pool, the hoisting cable on the fuel handling crane parted and assembly X-13

04 dropped back into its rack from the fully lifted position. This is reportable in

05 accordance with T.S. 6.9.2.a.2. There is no indication of fuel cladding damage, as

06 radiation monitor readings and survey results are unchanged from pre-event values.

07 The public's health and safety were not affected. Similar LER's were 251-73-2 and

08 251-75-7.

09

SYSTEM CODE F D 11 CAUSE CODE E 12 CAUSE SUBCODE B 13 COMPONENT CODE I N S T R U 14 COMP SUBCODE S 15 VALVE SUBCODE Z 16

LER/RO REPORT NUMBER 17 EVENT YEAR 8 3 SEQUENTIAL REPORT NO. 0 0 2 OCCURRENCE CODE 0 1 REPORT TYPE X 1 REVISION NO. 1

ACTION TAKEN X 18 FUTURE ACTION Z 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 ATTACHMENT SUBMITTED Y 23 NPROH FORM SUB. N 24 PRIME COMP SUPPLIER Z 25 COMPONENT MANUFACTURER P 0 0 6 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 A malfunction of the two limit switches on the hoisting crane failed to stop the

11 upward movement of the fuel assembly. This caused the cable to be overstressed.

12 Subsequently, the cable parted. Repairs have been made to the limit switches.

13 Additional inspections of X-13 were conducted in the spent fuel pool. No signs of

14 cladding damage to the assembly were revealed.

15

FACILITY STATUS G 23 % POWER 0 0 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator observation 32

ACTIVITY CONTENT Z 33 Z 34 N/A 35 AMOUNT OF ACTIVITY N/A 36 LOCATION OF RELEASE N/A 37

PERSONNEL EXPOSURES NUMBER 0 0 37 TYPE Z 38 DESCRIPTION N/A 39

PERSONNEL INJURIES NUMBER 0 0 40 DESCRIPTION N/A 41

LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 N/A 43

PUBLICITY ISSUED DESCRIPTION N/A 45

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PDR ADDCK 05000251  
S PDR

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NAME OF PREPARER Z. E. Berry PHONE: (305) 245-2910 Ext.353

### Additional Event Description and Probable Consequences

Spent fuel assembly X-13 was being moved to another location in the Unit 4 spent fuel pool for the installation of a burnable poison insert. While lifting the spent fuel assembly out of its designated rack in the spent fuel pool, the hoisting cable on the fuel handling crane parted and X-13 dropped back into its rack from the fully lifted position. This is reportable in accordance with T.S. 6.9.2.a.2. There is no indication of fuel cladding damage, as radiation monitor readings and survey results are unchanged from pre-event values. The public's health and safety were not affected. Similar LER's were 251-73-2 and 251-75-7.

### Additional Cause Description and Corrective Action

A malfunction of the two limit switches on the hoisting crane failed to stop the upward movement of the fuel assembly. This caused the cable to be over-stressed. Subsequently, the hoisting cable broke.

On 03-14-83, OP 16304.1, Spent Fuel Pit Bridge Crane - Periodic Test, had been performed as required to demonstrate proper function of the equipment prior to its use for actual fuel movement. At this time, it was verified that the hoist movement was properly controlled by the limit switches. Apparently, failure of these controls took place between the time this check was performed and the time assembly X-13 was moved. The linkage in the power circuit limit switch (the primary mechanism of stopping the hoist) was found unhooked. The geared limit switch, which normally functions as a back-up to the primary limit switch, was found out of adjustment. The necessary repairs and adjustments were made on the limit switches. The hoisting cable was replaced. Plant procedures 16300, Spent Fuel Pit Bridge Crane Operating Instructions, and 16304.1, Spent Fuel Pit Bridge Crane - Periodic Test, have been changed to provide clarification of instructions concerning the function and operation of the two limit switches.

Two spent fuel assemblies from the Unit 3 spent fuel pool were designated as replacements for X-13 and its sister assembly in the Unit 4 reactor core. (At the time of this event, Unit 4 was defueled while undergoing steam generator replacement. Fuel assembly X-13 was to be used in the upcoming core load.) The dropped fuel assembly is presently stored in the spent fuel pool. Proper methods of moving potentially damaged fuel assemblies will be evaluated prior to any future movement if it becomes necessary.



DEC 29 A 8:58

December 22, 1983  
PNS-LI-83-753

Mr. James P. O'Reilly  
Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street N.W., Suite 2900  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

REPORTABLE OCCURRENCE 251-83-002

TURKEY POINT UNIT 4

DATE OF OCCURRENCE: APRIL 5, 1983

TECHNICAL SPECIFICATION 6.2.2.a.9

FUEL ASSEMBLY X-13

UPDATE NUMBER 1

The attached Licensee Event Report is being submitted to update our initial report of April 19, 1983.

Very truly yours,

*for* *W. N. Rademan*  
J. W. Williams, Jr.  
Vice President  
Nuclear Energy Department

JWW/PKG/js

Attachment

cc: Director, Office of Inspection and Enforcement (40)  
Harold F. Reis, Esquire  
File 933.1 TP

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IE 22  
PEOPLE... SERVING PEOPLE