

LICENSEE EVENT REPORT

LER 76-10/010

CONTROL BLOCK:

1	2	3	4	5	6
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(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER						LICENSE TYPE				EVENT TYPE								
01	M	A	Y	K	R	1	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	1	0	1
7	8	9	14	15	25	26	30	31	32															

CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER				EVENT DATE				REPORT DATE												
01	CONT	T	L	0	5	0	-	0	0	2	9	0	8	3	0	7	6	0	9	3	0	7	6
7	8	57	58	59	60	61	68	69	74	75	80												

EVENT DESCRIPTION

02	(See attached sheet)	80
03		80
04		80
05		80
06		80

SYSTEM CODE	CAUSE CODE	COMPONENT CODE				PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER				VIOATION			
07	Z	Z	A	Z	Z	Z	Z	Z	Z	Z	9	9	9	N
7	8	9	10	11	12	17	43	44	47	48				

CAUSE DESCRIPTION

08	(See attached sheet)	80
09		80
10		80

FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION					
11	E	0	9	4	NA	A	NA		
7	8	9	10	12	13	44	45	46	80

FORM OF ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE				
12	Z	Z	NA				
7	8	9	10	11	44	45	80

PERSONNEL EXPOSURES

NUMBER	TYPE	DESCRIPTION				
13	0	0	0	Z	NA	
7	8	9	11	12	13	80

PERSONNEL INJURIES

NUMBER	DESCRIPTION				
14	0	0	0	NA	
7	8	9	11	12	80

OFFSITE CONSEQUENCES

15	NA	80
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LOSS OR DAMAGE TO FACILITY

TYPE	DESCRIPTION			
16	Z	NA		
7	8	9	10	80

PUBLICITY

17	NA	80
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ADDITIONAL FACTORS

18		80
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8011240400	80
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NAME: James L. Staub

PHONE: 413-625-6140

EVENT DESCRIPTION

On August 30, 1976 during a review of the Core XII analysis and in preparation of Core XIII analysis, an error was discovered in Fig. 8-1 of the Technical Specification D.2.c.1. This curve delineates the allowable peak LHGR and was found to be non-conservative by 2.7%.

The allowable peak LHGR curve, Fig. 8.1 as originally evaluated did not include a correction for the fact that only 0.973 of the heat is generated in the fuel (P.C. 125 Table 6-1) and 0.027 is due to gamma energy. Therefore, on applying the 0.973 multiplier, so that the curve will be consistent with measured numbers, the curve (Fig. 8.1) will be reduced by 2.7%.

To determine whether the KW/FT limits were actually exceeded, the measured data for Core XII was re-examined. The re-examination shows that the correct limiting LHGR has been exceeded only for 12 days out of the 221 power days of operation from startup to Core XII to August 30, 1976. During those 12 days (which occurred in June 1976) the actual peak LHGR was between 10.24 and 10.41 KW/FT. compared to the correct limit of 10.22 KW/FT. From INCORE run YR-XII-13 covering the period of interest, it was found that only 4 fuel rods out of 17734 in the core were in excess of the correct limiting LHGR for each of the 12 days.

The plant load was reduced immediately by 2.7% in order to correct for this error.

CAUSE DESCRIPTION

The gamma heating correction was omitted by an error in application of the computer codes.

In the future the data used in the preparation of the accident analysis will be placed under more stringent review and control.

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER
INCIDENT REPORT

TO: J.P.O'REILLY

FROM: YANKEE ATOMIC ELEC. CO.,
ROWE, MASSACHUSETTS
H.A. AUTIODATE OF DOCUMENT
9-30-76DATE RECEIVED
10-4-76☒ LETTER
☒ ORIGINAL
☐ COPY☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

40

DESCRIPTION

LTR. TRANS THE FOLLOWING.....

ENCLOSURE

REPORTABLE OCCURRENCE # 76/10/010, ON 8-30-76
CONCERNING AN ERROR THAT DISCOVERED IN FIG 8-1
OF THE TECH. SPEC. D.2.c.1.....(1 CARBON SIGNED CY. RECEIVED)
(3 PAGES)

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: YANKEE ROWE

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION

SAB 10-5-76

☒ BRANCH CHIEF: SCHWENCER
☒ W/3 CYS FOR ACTION
☒ LIC. ASST.: SHEPPARD
☒ W/ CYS
☒ ACRS 16CYS ~~XXXXXXXX~~/SENT TO LA

INTERNAL DISTRIBUTION

☒ REG FILE
☒ NRC PDR
☒ I & E (2)
☒ MIPC
☒ SCHROEDER/IPPOLITO
☒ HOUSTON
☒ NOVAK/CHECK
☒ GRIMES
☒ CASE
☒ BUTLER
☒ HANAUER
☒ TEDESCO/MACCARY
☒ EISENHUT
☒ BAER
☒ SHAO
☒ VOLLMER/PUNCH
☒ KREGER/J. COLLINS

EXTERNAL DISTRIBUTION

CONTROL NUMBER

☒ LPDR: GREENFIELD, MASS
☒ TIC:
☒ NSIC:

10078

POOR ORIGINAL