

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Mr. Norman C. Moseley

FROM: TVA
Chattanooga, Tennessee 37401
H. S. FoxDATE OF DOCUMENT
03-10-77DATE RECEIVED
03-11-77☒ LETTER
☐ ORIGINAL
☐ COPY☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

1 CC

DESCRIPTION

Ltr. Trans The Following:

(1 page)

ENCLOSURE Licensee Event Report (RO-50-296/774)
on 01-15-77 concerning CMFLPD exceeded Tech
Spec limits in node 9 due to gadolinia burnout
in the fuel...

(6 pages)

PLANT NAME: BROWNS FERRY UNIT # 3
jcm

DO NOT REMOVE

ACKNOWLEDGED

SAFETY

FOR ACTION/INFORMATION

ENVIRO

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST. :

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST. :

INTERNAL DISTRIBUTION

REG FILE

NRC PDR

I & E

OELD

GOSSICK & STAFF

MIPC

CASE

HANAUER

HARLESS

SYSTEMS SAFETY

HEINEMAN

SCHROEDER

ENGINEERING

MACARRY

BOSNAK

SIHWEIL

PAWLICKI

PLANT SYSTEMS

TEDESCO

BENAROYA

LAINAS

IPPOLITO

KIRKWOOD

OPERATING REACTORS

STELLO

SITE SAFETY &

ENVIRO ANALYSIS

DENTON & MULLER

ENVIRO TECH.

ERNST

BALLARD

SPANGLER

SITE TECH.

GAMMILL

STAPP

HULMAN

PROJECT MANAGEMENT

BOYD

P. COLLINS

HOUSTON

PETERSON

MELTZ

HELTEMES

SKOVHOLT

REACTOR SAFETY

ROSS

NOVAK

ROSZTOCZY

CHECK

AT & I

SALTZMAN

RUTBERG

OPERATING TECH.

EISENHUT

SHAO

BAER

BUTLER

GRIMES

SITE ANALYSIS

VOLLNER

BUNCH

J. COLLINS

KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR:

TIC:

NSIC:

ASLB:

ACRS CYS HOLDING/SENT

NAT. LAB:

REG V.IE

LA PDR

CONSULTANTS:

BROOKHAVEN NAT. LAB.

ULRIKSON (ORNL)

770750 260

RECEIVED 11/11/57

(100)

DO NOT REMOVE

ACKNOWLEDGED



BRANCH CHIEF:	Schwen?	
W/3 CYS FOR ACTION		
LIC. ASST.:	Sheppard	
W/1 CYS		
ACRS 16 CYS HOLDING/SENT	As CAT D	

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/BUNGH				
KREGER/J. COLLINS				

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: Athens, AI				
TIC:				
NSIC:				

370750260



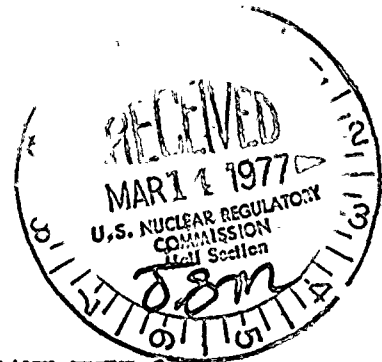


TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401

March 10, 1977

Regulatory Docket File

Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
230 Peachtree Street, NW., Suite 1217
Atlanta, Georgia 30303



Dear Mr. Moseley:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 3 -
DOCKET NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE
OCCURRENCE REPORT BFRO-50-296/774

The enclosed report is to provide details concerning CMFLPD that exceeded the limit on January 15, and January 18, 1977, and MAPRAT that exceeded the limit on January 18, and January 24, 1977. This report is submitted in accordance with Browns Ferry Technical Specifications Section 6. This event occurred on Browns Ferry unit 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

H. S. Fox
Director of Power Production

Enclosure (3)
CC (Enclosure):
Director (3)

Office of Management Information and Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Director (40)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

2700

770750260

Regulatory Docket File

THE FOLLOWING IS A SUMMARY OF THE
MATTERS WHICH ARE CURRENTLY
BEING CONSIDERED BY THE
COMMISSION.

1. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
FEDERAL RESERVE BOARD.

2. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
SECURITIES AND EXCHANGE
COMMISSION.

3. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
NATIONAL BUREAU OF FIRE
UNDERWRITERS.

4. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
NATIONAL ASSOCIATION OF
REALTORS.

5. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
NATIONAL ASSOCIATION OF
SECURITIES DEALERS.

6. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
NATIONAL ASSOCIATION OF
BROKERS.

7. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
NATIONAL ASSOCIATION OF
FINANCIAL PLANNERS.

8. THE COMMISSION IS CURRENTLY
CONSIDERING THE PROPOSED
REGULATIONS OF THE
NATIONAL ASSOCIATION OF
PUBLIC RELATIONS.

CENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER										LICENSE TYPE					EVENT TYPE	
A L B R F 3						0 0 - 0 0 0 0 0 0 - 0 0										4 1 1 1 1 1					0 3	
57						58										59					60	
CONT						DOCKET NUMBER										EVENT DATE					REPORT DATE	
0 1						0 5 0 - 0 2 9 6										0 1 1 5 7 7						
61						62										63					64	

EVENT DESCRIPTION

At 2319 hours on 1/15/77 CMFLPD went to 0.998 (limit = 0.992) in node 9 at 3279 MWt. Power was decreased to 3260 MWt by flow reduction to bring CMFLPD to 0.990 at node 9 within 2 hours. At 0300 on 1/18/77 CMFLPD went to 0.994 (limit = 0.992) in node 9 and MAPRAT went to 1.002. Power was reduced with flow about 15 MWe to bring CMFLPD went to 1.003 and (Over)

SYSTEM CODE		CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
R C		F		F U E L X X				N		G 0 8 0				N	
10		11		12				43		44				48	

CAUSE DESCRIPTION

These limits were exceeded due to gadolinia burnout in the fuel causing an increase in the local LHGR. In all cases, flow decreases reduced power to bring CMFLPD in limits within 2 hours.

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION			
E		0 9 9		N/A		B		N/A			
9		10		13		44		46			
FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE					
Z		Z		N/A		N/A					
9		10		44		45		60			

PERSONNEL EXPOSURES

NUMBER			TYPE		DESCRIPTION	
0 0 0			Z		N/A	
11			12		13	

PERSONNEL INJURIES

NUMBER			DESCRIPTION	
0 0 0			N/A	
11			12	

OFFSITE CONSEQUENCES

N/A					
60					

LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION			
Z		N/A			
10		60			

PUBLICITY

N/A					
60					

ADDITIONAL FACTORS

The events were recognized reportable during a periodic review of the technical specification by the reactor engineer. Prior to this time, the correction of the out-of-limit condition

(Over)

Event Description (Continued)

MAPRAT to 1.009. Power was reduced by flow from 3281 MWt to 3269 MWt to bring CMFLPD to 0.990 and MAPRAT to 0.997 within 2 hours. At 0700 hours on 1/24/77 MAPRAT went to 1.002 while at 3260 MWt. Power was reduced with flow 10 MWe to bring MAPRAT to 0.999 with 2 hours. BFRO-50-296/774.

Additional Factors (Continued)

within the interval specified in the limiting condition for operation was not considered reportable.

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER										LICENSE TYPE					EVENT TYPE					
A L B R F 3						0 0 - 0 0 0 0 0 0 - 0 0										4 1 1 1 1					0 3					
57 58						59 60										61 62 63 64 65					66 67 68 69 70					
CATEGORY						REPORT TYPE		REPORT SOURCE		DOCKET NUMBER										EVENT DATE					REPORT DATE	
L						L		L		0 5 0 - 0 2 9 6										0 1 1 5 7 7						
57 58						59 60		61 62		63 64 65 66 67 68 69 70										71 72 73 74 75 76					77 78	

EVENT DESCRIPTION

At 2319 hours on 1/15/77 CMFLPD went to 0.998 (limit = 0.992) in node 9 at 3279 MWt. Power was decreased to 3260 MWt by flow reduction to bring CMFLPD to 0.990 at node 9 within 2 hours. At 0300 on 1/18/77 CMFLPD went to 0.994 (limit = 0.992) in node 9 and MAPRAT went to 1.002. Power was reduced with flow about 15 MWe to bring CMFLPD went to 1.003 and (Over)

SYSTEM CODE		CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
R C		F		F U E L X X				N		G 0 8 0				N	
9 10		11		12 13 14 15 16 17				43		44 45 46 47				48	

CAUSE DESCRIPTION

These limits were exceeded due to gadolinia burnout in the fuel causing an increase in the local LHGR. In all cases, flow decreases reduced power to bring CMFLPD in limits within 2 hours.

FACILITY STATUS		% POWER		OTHER STATUS				METHOD OF DISCOVERY		DISCOVERY DESCRIPTION			
E		0 9 9		N/A				B		N/A			
9		10 11 12		13 14 15 16 17				44 45		46 47 48 49 50			
FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY						LOCATION OF RELEASE			
Z		Z		N/A						N/A			
9		10 11		12 13 14 15 16 17				44 45		46 47 48 49 50			

PERSONNEL EXPOSURES

NUMBER		TYPE		DESCRIPTION	
0 0 0		Z		N/A	
9 10 11		12		13 14 15 16 17	

PERSONNEL INJURIES

NUMBER		DESCRIPTION	
0 0 0		N/A	
9 10 11		12 13 14 15 16 17	

OFFSITE CONSEQUENCES

N/A	
9 10 11 12 13 14 15 16 17	

LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION	
Z		N/A	
9 10		11 12 13 14 15 16 17	

PUBLICITY

N/A	
9 10 11 12 13 14 15 16 17	

ADDITIONAL FACTORS

The events were recognized reportable during a periodic review of the technical specification by the reactor engineer. Prior to this time, the correction of the out-of-limit condition

(Over)

Event Description (Continued)

MAPRAT to 1.009. Power was reduced by flow from 3281 MWt to 3269 MWt to bring CMFLPD to 0.990 and MAPRAT to 0.997 within 2 hours. At 0700 hours on 1/24/77 MAPRAT went to 1.002 while at 3260 MWt. Power was reduced with flow 10 MWe to bring MAPRAT to 0.999 with 2 hours. BFRO-50-296/774.

Additional Factors (Continued)

within the interval specified in the limiting condition for operation was not considered reportable.

CENSEE EVENT REPORT

CONTROL BLOCK

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME A L B R F 3										LICENSE NUMBER 0 0 - 0 0 0 0 0 0 - 0 0										LICENSE TYPE 4 1 1 1 1					EVENT TYPE 0 3	
CONT 6		CATEGORY 57 58		REPORT TYPE 59		REPORT SOURCE 60		DOCKET NUMBER 61 5 0 - 0 2 9 6		EVENT DATE 69 0 1 1 5 7 7		REPORT DATE 75														

EVENT DESCRIPTION

At 2319 hours on 1/15/77 CMFLPD went to 0.998 (limit = 0.992) in node 9 at 3279 MWt. Power was decreased to 3260 MWt by flow reduction to bring CMFLPD to 0.990 at node 9 within 2 hours. At 0300 on 1/18/77 CMFLPD went to 0.994 (limit - 0.992) in node 9 and MAPRAT went to 1.002. Power was reduced with flow about 15 MWe to bring CMFLPD went to 1.003 and (Over)

SYSTEM CODE R C		CAUSE CODE F		COMPONENT CODE F U E L X X				PRIME COMPONENT SUPPLIER N		COMPONENT MANUFACTURER G 0 8 0				VIOLATION N	
--------------------	--	-----------------	--	-------------------------------	--	--	--	-------------------------------	--	-----------------------------------	--	--	--	----------------	--

CAUSE DESCRIPTION

These limits were exceeded due to gadolinia burnout in the fuel causing an increase in the local LHGR. In all cases, flow decreases reduced power to bring CMFLPD in limits within 2 hours.

FACILITY STATUS E		% POWER 0 9 9		OTHER STATUS N/A		METHOD OF DISCOVERY B		DISCOVERY DESCRIPTION N/A			
FORM OF ACTIVITY RELEASED Z		CONTENT OF RELEASE Z		AMOUNT OF ACTIVITY N/A		LOCATION OF RELEASE N/A					

PERSONNEL EXPOSURES

NUMBER 0 0 0		TYPE Z		DESCRIPTION N/A			
-----------------	--	-----------	--	--------------------	--	--	--

PERSONNEL INJURIES

NUMBER 0 0 0		DESCRIPTION N/A			
-----------------	--	--------------------	--	--	--

OFFSITE CONSEQUENCES

N/A					
-----	--	--	--	--	--

LOSS OR DAMAGE TO FACILITY

TYPE Z		DESCRIPTION N/A			
-----------	--	--------------------	--	--	--

PUBLICITY

N/A					
-----	--	--	--	--	--

ADDITIONAL FACTORS

The events were recognized reportable during a periodic review of the technical specification by the reactor engineer. Prior to this time, the correction of the out-of-limit condition

(Over)

RECEIVED DOCUMENT
PROCESSING UNIT

1977 MAR 15 PM 9 36

Event Description (Continued)

MAPRAT to 1.009. Power was reduced by flow from 3281 MWt to 3269 MWt to bring CMFLPD to 0.990 and MAPRAT to 0.997 within 2 hours. At 0700 hours on 1/24/77 MAPRAT went to 1.002 while at 3260 MWt. Power was reduced with flow 10 MWe to bring MAPRAT to 0.999 with 2 hours. BFRO-50-296/774.

Additional Factors (Continued)

within the interval specified in the limiting condition for operation was not considered reportable.