

50-260/296

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO: MR N C MOSELEY

FROM: TVA
CHATTANOOGA, TENN
H S FOX

DATE OF DOCUMENT

9-22-76

DATE RECEIVED

9-27-76

☒ LETTER
☒ ORIGINAL
☒ COPY☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

None Signed

DESCRIPTION

LTR TRANS THE FOLLOWING.....

ENCLOSURE

50-296/764

LICENSEE EVENT REPORT 50-260/7611 ON 9-9-76
REF O₂ SENSORS IN CAM SYSTEM ON UNITS 2 & 3
CALIBRATED USING SERVICE AIR AND H₂ - N₂
MIXTURE GAS INSTEAD OF 2% O₂ VOLUME MIXTURE
GAS AS DETERMINED BY TECH SPEC.....

ACKNOWLEDGED

DO NOT REMOVE

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

PLANT NAME: Browns Ferry 2:3

FOR ACTION/INFORMATION

9-29-76 RRB

BRANCH CHIEF:	KNIEL-SCHWENGER
W/3 CYS FOR ACTION	
LIC. ASST.:	J. LEE-S. SHEPPARD
W/ CYS	
ACRS 16 CYS HOLDING/SENT TO LA	

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE	
<input checked="" type="checkbox"/> NRC PDR	
<input checked="" type="checkbox"/> I & E (2)	
<input checked="" type="checkbox"/> MIPC	
<input checked="" type="checkbox"/> SCHROEDER/IPPOLITO	
<input checked="" type="checkbox"/> HOUSTON	
<input checked="" type="checkbox"/> NOVAK/CHECK	
<input checked="" type="checkbox"/> GRIMES	
<input checked="" type="checkbox"/> CASE	
<input checked="" type="checkbox"/> BUTLER	
<input checked="" type="checkbox"/> HANAUER	
<input checked="" type="checkbox"/> TEDESCO/MACCARY	
<input checked="" type="checkbox"/> EISENHUT	
<input checked="" type="checkbox"/> BAER	
<input checked="" type="checkbox"/> SHAO	
<input checked="" type="checkbox"/> VOLLMER/BUNCH	
<input checked="" type="checkbox"/> KREGER/J. COLLINS	

EXTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> LPDR: ATHENS, ALA.	
<input checked="" type="checkbox"/> TIC:	
<input checked="" type="checkbox"/> NSIC:	

CONTROL NUMBER

9773

... ..
... ..
... ..
... ..
... ..

... ..

... ..

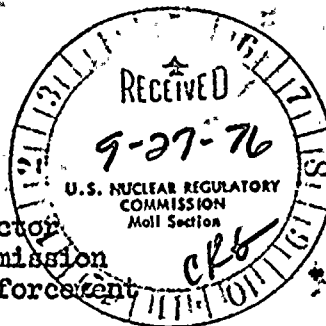
... ..



TENNESSEE VALLEY AUTHORITY ^{Regulatory}
CHATTANOOGA, TENNESSEE 37401

File Cy.

September 22, 1976



Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
230 Peachtree Street, NW., 8th Floor
Atlanta, Georgia 30303

Dear Mr. Moseley:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNITS 2 AND 3 -
DOCKET NOS. 50-260 AND 50-296 - FACILITY OPERATING LICENSES DPR-52
AND DPR-68 - REPORTABLE OCCURRENCE REPORTS BFR0-50-260/7611 AND
BFR0-50-296/764

The enclosed report is to provide details concerning O₂ and H₂
sensors in the CAM system that were not calibrated in accordance
with the technical specifications. This report is submitted in
accordance with Browns Ferry Technical Specifications Section 6.
This event occurred on Browns Ferry Nuclear Plant units 2 and 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

8446

9773

File No.

Regulatory



202 202

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER										LICENSE TYPE					EVENT TYPE				
01	A	L	B	R	F	2	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

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

EVENT DESCRIPTION

02	O ₂ sensors in CAM system on units 2 and 3 were calibrated using service air and H ₂ -N ₂	80
03	mixture gas instead of 2% O ₂ volume mixture gas as specified in 4.7.H.1.b of the tech	80
04	specs. H ₂ sensors were calibrated using 4% H ₂ volume mixture gas and not 3% H ₂	80
05	volume mixture gas as required in 4.7.H.1.a of the tech. specs. BFRO-50-260/7611	80
06	BFRO-50-296/764.	80

SYSTEM CODE		CAUSE CODE	COMPONENT CODE					PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER			VOLATION			
07	X	X	D	Z	Z	Z	Z	Z	Z	N	Z	9	9	9	Y
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	R	0	0	8	D	DPP notified by DED, TVA	80	
7	8	9	10	12	13	44	45	46

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

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

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

OFFSITE CONSEQUENCES		
15	NA	80
7	8	9

LOSS OR DAMAGE TO FACILITY		
TYPE	DESCRIPTION	
16	NA	80
7	8	9

PUBLICITY		
17	NA	80
7	8	9

ADDITIONAL FACTORS		
18	(See attached sheet.)	80
7	8	9

19	(See attached sheet.)	80
7	8	9

LICENSE EVENT REPORT

BFRO-50-260/7611 BFRO-50-296/764

CAUSE DESCRIPTION

CAM calibration instruction was written and performed prior to issuance of operating license and reflected a proposed technical specification change allowing service air use for O_2 calibration. The operating license when issued did not include the proposed change; therefore, the calibration instruction was in error and did not comply with the technical specifications.

ADDITIONAL FACTORS

The validity of the original calibration of O_2 sensors using service air and H_2-N_2 gas mixture was confirmed when 2% O_2 volume gas was applied. A 4% H_2 mixture calibration gas was considered adequate to satisfy nominal calibration requirements for the H_2 sensors. Personnel involved in the preparation and review of this surveillance instruction have been reminded that surveillance instructions must comply with the technical specifications and shall not be revised to reflect proposals until officially issued. Unit 3 was in cold shutdown.



TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

September 22, 1976

Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
230 Peachtree Street, NW., 8th Floor
Atlanta, Georgia 30303

Dear Mr. Moseley:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNITS 2 AND 3 -
DOCKET NOS. 50-260 AND 50-296 - FACILITY OPERATING LICENSES DPR-52
AND DPR-68 - REPORTABLE OCCURRENCE REPORTS BFRO-50-260/7611 AND
BFRO-50-296/764

The enclosed report is to provide details concerning O₂ and H₂
sensors in the CAM system that were not calibrated in accordance
with the technical specifications. This report is submitted in
accordance with Browns Ferry Technical Specifications Section 6.
This event occurred on Browns Ferry Nuclear Plant units 2 and 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

H. S. Fox
for 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

THE UNITED STATES OF AMERICA
DO hereby certify that
[Name] is a citizen of the United States of America.

Witness my hand and the seal of the Department of State at Washington, D.C., this [Date] day of [Month], 19[Year].

Secretary of State

Notary Public

[Signature]

[Signature]

[Signature]

[Signature]

[PLEASE PRINT ALL REQUIRED INFORMATION]

**EVENT
TYPE**

(See attached sheet.)

LICENSE EVENT REPORT

BFRO-50-260/7611 BFRO-50-296/764

CAUSE DESCRIPTION

CAM calibration instruction was written and performed prior to issuance of operating license and reflected a proposed technical specification change allowing service air use for O_2 calibration. The operating license when issued did not include the proposed change; therefore, the calibration instruction was in error and did not comply with the technical specifications.

ADDITIONAL FACTORS

The validity of the original calibration of O_2 sensors using service air and H_2-N_2 gas mixture was confirmed when 2% O_2 volume gas was applied. A 4% H_2 mixture calibration gas was considered adequate to satisfy nominal calibration requirements for the H_2 sensors. Personnel involved in the preparation and review of this surveillance instruction have been reminded that surveillance instructions must comply with the technical specifications and shall not be revised to reflect proposals until officially issued. Unit 3 was in cold shutdown.

