

**NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)**

CONTROL NO: 9582
FILE: Seaver

FROM: Tennessee Valley Auth. Chattanooga, Tenn. E.F. Thomas			DATE OF DOC 9-3-75	DATE REC'D 9-9-75	LTR XXX	TWX	RPT	OTHER
TO: A. Giambusso			ORIG 1 Signed	CC	OTHER	SENT NRC PDR <u>XXXX</u> SENT LOCAL PDR <u>XXXX</u>		
CLASS	UNCLASS XXXX _x	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-259/260/296		

DESCRIPTION:

Samples from 12 Rainwater Samples taken on 8-4& 5, 1975 higher than normal levels of ⁶⁰Co. were released.....

(1 cy. Rec'd)

PLANT NAME: Browns Ferry 1,2,3

ENCLOSURES:

FOR ACTION/INFORMATION

VCR 9-30-75

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies	REID (L) W/ COPIES
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	LEAR (L) W/ Copies	
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	SPIES W/ Copies	
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	LPM W/ Copies	

INTERNAL DISTRIBUTION

REG FILE NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE GIAMBUSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) MIPC	TECH REVIEW SCHROEDER MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER <u>HANOVER</u>	DENTON GRIMES GAMMILL RASTNER BALLARD SPANGLER ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR <u>File</u> HARRLESS	LIC ASST R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) 6 J. LEE (L) M. RUSHBROOK (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) 6 M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (E)	A/T IND. BRAITMAN SALTZMAN MELTZ PLANS MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON
---	---	--	--	--

EXTERNAL DISTRIBUTION

1 - LOCAL PDR <u>Anderson</u>	1 - NATIONAL LABS	1 - PDR-SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - W. PENNINGTON, Rm E-201 GT	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - CONSULTANTS	1 - G. ULRICKSON ORNL
1 - ASLB	NEWMARK/BLUME/AGBABIAN	
1 - Newton Anderson		
1 - ACRS HOLDING/SENT		

Gr-1



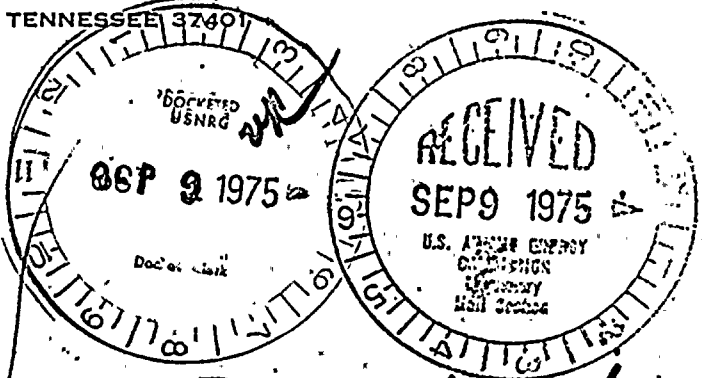
TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

Regulatory Docket File

September 3, 1975

Mr. A. Giambusso, Director
Division of Reactor Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



50-259/260/296

Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Region II
230 Peachtree Street, NW. Suite 818
Atlanta, GA 30303

Gentlemen:

Browns Ferry Nuclear Plant Technical Specifications specify that if a measured level of radioactivity in any environmental medium other than those associated with gaseous radioiodine releases exceeds four times the control station value, a written notification will be submitted within 30 days.

Twelve samples of rainwater from twelve different locations in the Browns Ferry area were taken on August 4 and 5, 1975. Preliminary analysis of these samples on August 11, 1975, indicated that the sample from Athens, Alabama, 11 miles northeast of Browns Ferry, contained approximately 40 pCi/l of ^{60}Co . A more thorough analysis of the data was completed on August 18, 1975, indicating a concentration of 33.5 ± 2.8 pCi/l for that sample, while the concentration at all other stations ranged from 0.8 ± 1.6 to 5.69 ± 1.8 pCi/l. The concentration reported in the sample collected at the control station at Sheffield, Alabama, was 4.2 ± 1.9 pCi/l.

The general movement of thunderstorms in the area is from SSW to NNE. A large number of thunderstorms occurred during the month of July 1975. Approximately 8 inches of rainfall were measured at Athens during the month.

Routine analysis of particulate filters from the turbine and reactor building exhausts during the month of July indicated higher than normal levels of ^{60}Co . At no time did these concentrations exceed reportable levels.

Rainwater collected at the Athens, Alabama, station from August 4-19 was sampled on August 19. Analysis of this sample revealed no significant levels of radionuclides present in the sample.

2

Mr. A. Giambusso
Mr. Norman C. Moseley

September 3, 1975

It is concluded from the above data that ^{60}Co released from Browns Ferry probably was caught up by a passing stormcloud and washed out in the Athens area. The result of the second sample indicates that the phenomenon was probably unique and not recurring.

The occurrence represented no hazard to the public since the concentration reported is only 0.1 percent of the 10 CFR 20 limits.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



for
E. F. Thomas
Director of Power Production

