400 Chestnut Street Tower II

April 1, 1981

TVA-SNP-TS-8

Director of Nuclear Reactor Regulation Attention: Mr. A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing U.S. Nuclear Regulatory Commission Wishington, DC 20555

Dear Mr. Schwencer:

In the Matter of) Docket No. 50-327 Tennessee Valley Authority)

My letter to you dated January 30, 1981, committed TVA to revise the containment/temperature analysis provided in TVA's Core Degradation Report Volume 2 to reflect the reduced ice mass of 2,221,992 pounds. We have had the original Sequoyah Nuclear Plant base case CLASIX analysis rerun with the reduced ice mass. The results of the two runs are compared in the enclosed table. As expected, the results are similar except for the reduced ice mass. Also enclosed is a copy of the temperature and pressure plots for the reduced ice mass case.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager Nuclear Regulation and Safety

Sworn this	to and		of .		bef	ore - 19	me 181
		: 7			-1		
Notar	y Publi	le					
Му Со	mmissio	on Ex	pires	3		7.	
Enclo	sures						

303/1

A

ENCLOSURE

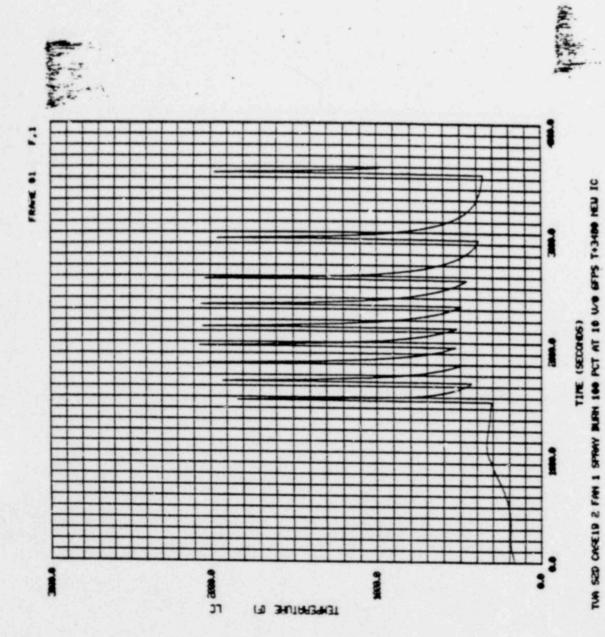
SEQUOYAH NUCLEAR PLANT

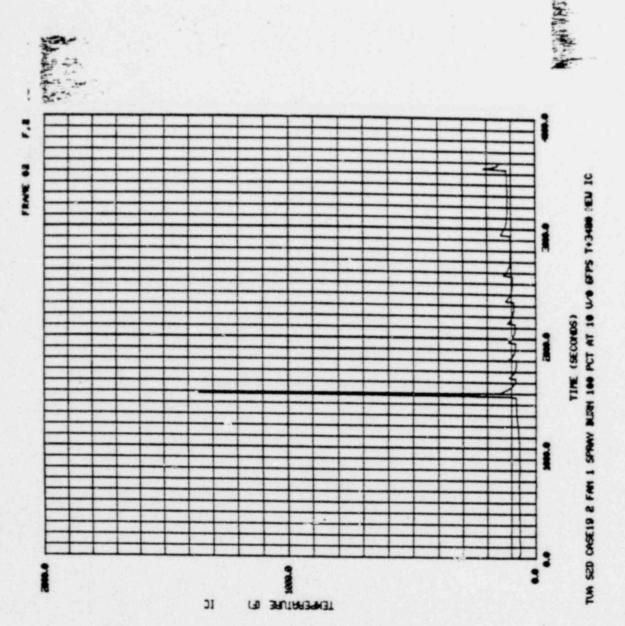
REVISED CONTAINMENT/TEMPERATURE ANALYSIS
REFLECTING NEW ICE MASS

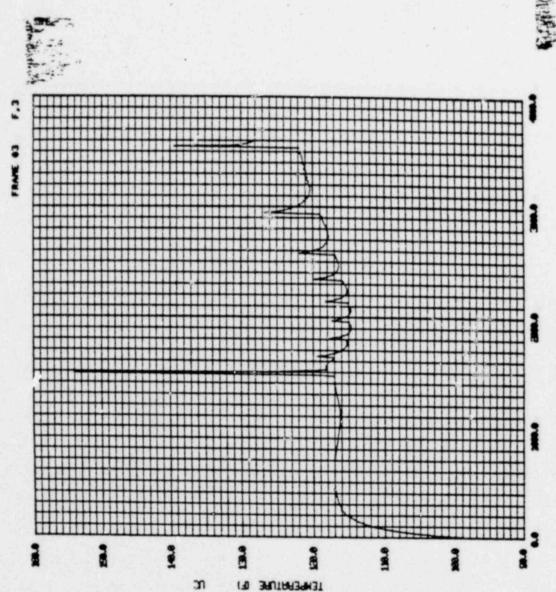
CLASIX ANALYSIS

TVA	SEQUOYAH -	REDUCED	TECH SPEC	ICE CASE COMPARI	ISON E	
				ORIGINAL BASE CASE (JV900)	NEW TECH SPEC ICE CASE	
# Burns LC IC UC				9 1 0	9 1 0	
Magnitude of E	Burns (Lbm)	IC UC		~100 37 -	~100 45 -	
Total H ₂ Burned (Lbm)				~900	~950	
H ₂ Remaining (Lbm)				~650	∿600	
Peak Temp (OF)	LC IC UC			2200 1200 150	2100 1350 155	
Peak Pressure	(PSIA) LC IC UC			26.5 28.5 28.5	26.8 28.2 28.5	
TIME DURING TRANSIENT (SEC)	TIME DURING CLASIX (SEC)		ORIGINAL CASE	ICE MASS (LBM) BASE	NEW TECH SPEC ICE CASE	
0			* 2.45 x	106	* 2.22 x 10 ⁶	
3480	0		1.67 x		1.44 x 10 ⁶	
7080	3600		3.05 x		1.19 x 10 ⁵	
Ice Melted Dur	ing CLASIX		1.37 x		1.32 x 10 ⁶	

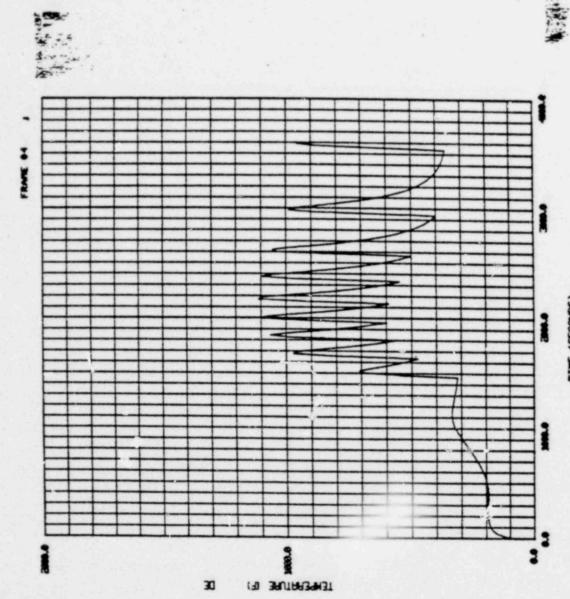
^{*}Note: LOTIC portion of analysis (0 to 3480 sec) was not rerun; ice mass was reduced by .23 \times 10 6 lbm at the beginning of the new CLASIX run.



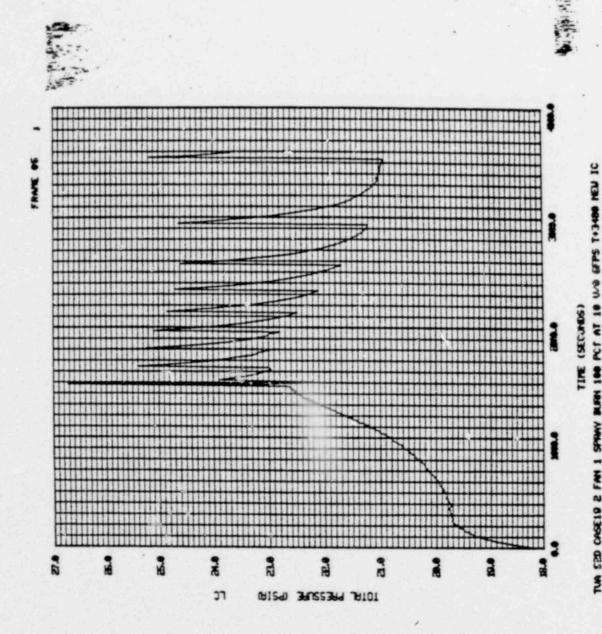




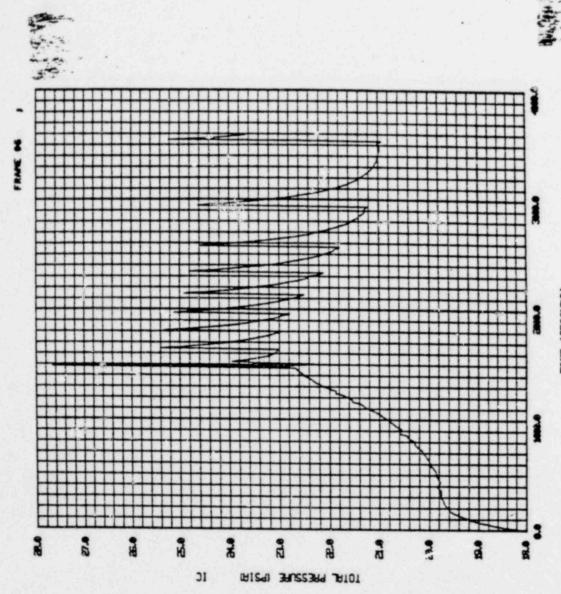
TIME (SECONDS)



TIME (SECONDS)



CADY-



TIME (SECONDS)

THE SECONDS)

TWO SEED CASELIS 2 FAM I SPRAY BLEN 100 FUT AT 10 U/O GFPS T+3480 NEU IC

