

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

November 18, 1982

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of)
Tennessee Valley Authority) Docket Nos. 50-390
50-391

By my letter to you dated November 10, 1982, TVA provided a table showing the results of an evaluation concerning buckling of Class 2 and 3 supports. The enclosed tables, which were not included in the referenced letter, provide a summary of the tabular data.

If you have any questions concerning this matter, please get in touch with D. P. Ormsby at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before me
this 18th day of Nov. 1982

Paulette H. White
Notary Public
My Commission Expires 9-5-84

Enclosures

cc: U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

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PDR ADOCK 05000390
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ENCLOSURE

SUMMARY OF RESULTS OF BUCKLING SAMPLING PROGRAM

The following number of supports were investigated for each system shown:

<u>System</u>	<u>No. of Supports</u>	<u>Interaction ≤ 1.5</u>	<u>Interaction > 1.5</u>
Aux. Boiler	30	17	--
Blow Down	3	1	--
L.P. Chem. & Vol. Control	30	13	--
H.P. Chem. & Vol. Control	28	5	--
Component Cooling	31	15	--
Containment Spray	18	3	--
Essent. Raw. Cool. Water	61	37	--
Feedwater	30	22	--
Aux. Feedwater	32	17	--
Fuel Pool Cooling	30	20	--
Main Steam	31	21	--
Safety Injection	36	15	--
Residual Heat Removal	26	13	--
Upper Head Injection	32	11	--
Reactor Coolant	29	8	--
Fire Protection	30	14	--
Primary Water	6	2	--
Service Air	3	1	--
Ice Condenser	29	17	--
Total Systems Investigated = 19	Total No. of Supports in Program = 515	Total No. of Supports with Inter ≤ 1.5 = 252	Total No. of Supports with Inter > 1.5 = 0

SUMMARY OF RESULTS OF BUCKLING SAMPLING PROGRAM

All supports from each system were categorized into the following structure types for the purpose of identifying members subject to Buckling:

<u>Structure Type</u>	<u>No. of Supports</u>	<u>No. $KL/r < 30$</u>
Short Column	95	52
Sleeve Support	20	10
Rigid Frame	112	96
Braced Cantilever	83	41
Unique Frames	30	13
Cantilever	73	12
L-Shape Cantilevers	15	5
Vendor Components	51	0
Braced Rigid Frames	36	23
Total No. of Structure Types = 9	Total No. of Supports = 515	Total No. of Supports with $KL/r < 30$ = 252