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 RECIP. NAME RECIPIENT AFFILIATION
 PAULSON, W. A. Operating Reactors Branch 5

SUBJECT: Forwards Rev 2 to "Mechanical Analysis Spent Fuel Storage Racks Modified to 100% Storage Density," in response to NRC questions re 840402 application for amend to License DPR-18.

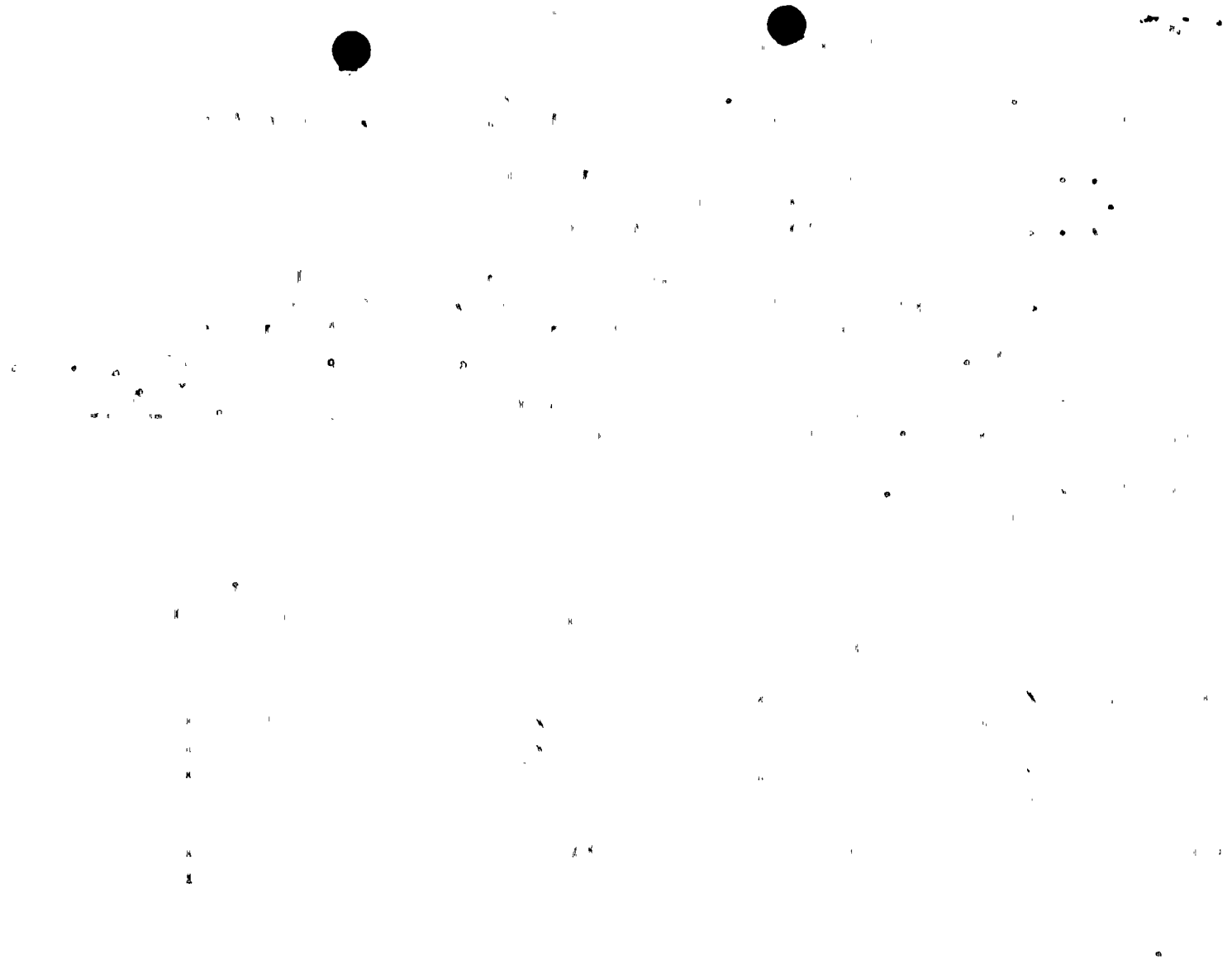
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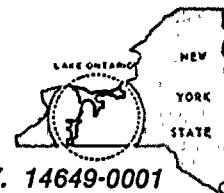
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September 27, 1984

Director of Nuclear Reactor Regulation
Attention: Mr. Walter A. Paulson, Acting Chief
Operating Reactors Branch No. 5
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Responses to NRC Staff Questions
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Paulson:

In response to NRC staff questions concerning our Application for Amendment to Operating License dated April 2, 1984, attached is a mechanical analysis of peak weld stresses.

The allowables for peak stresses referenced in the attached analysis are based upon Appendix D of Section 3.8.4 of the Standard Review Plan. The NRC staff has requested that the allowable stresses be based upon the OT Position Paper revised January 18, 1979. Attached is a table showing a comparison of peak stresses to these allowables.

The major difference between the two is that the acceptance criteria for the D+L+(OBE) loading conditions are the normal limits of the ASME Code Subsection NF rather than service limit B which allows for a 1/3 increase in allowable stresses. Note that although the margins of safety have decreased, all are still positive.

Very truly yours,

Roger W. Kober
Roger W. Kober

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PDR ADOCK 05000244
PDR

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

TABLE 3.7

SUMMARY OF STRESSES

(BASED ON OT POSITION PAPER ALLOWABLES)

COMPONENT	REF. SECT.	STRESS TYPE	LOAD	STRESS (KSI)	ALLOWABLE (KSI)	MARGIN SAFETY*
Internal Rack Weld E-W Plane (Fig. 3.1)	6.3	Shear Tension Shear Tension	STD.			
			OBE	8.63	20.5	+1.38
				12.71	21.0	+0.65
			SSE	10.13	28.7	+1.83
				14.36	33.6	+1.34
		Shear Tension Shear Tension	CONS.			
			OBE	11.39	20.5	+0.80
				15.64	21.0	+0.34
			SSE	12.81	28.7	+1.24
				17.86	33.6	+0.88
Internal Rack Weld N-S Plane (Fig. 3.2)	6.4	Shear Tension Shear Tension	STD.			
			OBE	10.60	20.5	+0.93
				13.90	20.5	+0.47
			SSE	11.13	28.7	+1.58
				15.59	28.7	+0.84
		Shear Tension Shear Tension	CONS.			
			OBE	12.94	20.5	+0.58
				16.41	20.5	+0.25
			SSE	14.96	28.7	+0.92
				19.80	28.7	+0.45
Internal Rack Weld	6.5	Shear Shear	STD.			
			OBE	9.35	20.5	+1.19
			SSE	10.82	28.7	+1.65
		Shear Shear	CONS.			
			OBE	10.26	20.5	+1.00
			SSE	12.86	28.7	+1.22
Box Wall Buckling	6.6	Comp. Comp.	STD.			
			OBE	9.03	13.5	+0.49
			SSE	10.45	13.5	+0.29
		Comp. Comp.	CONS.			
			OBE	9.91	13.5	+0.36
			SSE	12.42	13.5	+0.09

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SUMMARY OF STRESSES

(BASED ON OT POSITION PAPER ALLOWABLES)

COMPONENT	REF. SECT.	STRESS TYPE	LOAD	STRESS (KSI)	ALLOWABLES (KSI)	MARGIN SAFETY*
Floor Plate - Concrete	7.2	Bearing	STD.			
			OBE	1.70	2.1	+0.23
			SSE	1.96	3.40	+0.73
			CONS.			
			OBE	1.86	2.1	+0.13
			SSE	2.34	3.40	+0.45

$$* \text{ M.S. } = \frac{\text{ALLOWABLE STRESS}}{\text{COMPUTED STRESS}} - 1.0$$

September 27, 1984