

	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revision: 17.2 Table:5.3.5.10-2 Page: 1 of 1
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**SUMMARY OF RESULTS FOR TOP DECK STRUCTURE
(STRESS LEVELS WITHIN THE ICE CONDENSER)**

Description Of Member	Load Combination		Allowable Stress (ksi)	Stress Ratio ¹
Radial Beam	Blowdown Pressure (DL + DBA)		36.0	≤ 1.0
Radial Beam	Service Load (DL+OBE)		27.0	≤ 1.0
Radial Beam	Service Load (DL+Thermal Load+OBE)		81.0	≤ 1.0
Radial Beam	Design Load (DL+DBE)		36.0	≤ 1.0
Radial Beam	Design Load (DL+DBA+DBE)		45.0	≤ 1.0
Crane Rails	DL+LL		21.6	≤ 1.0
Crane Rails	DL+LL+Thermal		21.6	≤ 1.0
Circumferential Struts (A-36 steel)	DL+LL+Thermal		21.6	≤ 1.0
Circumferential Struts	DBA + DL		21.6	≤ 1.0
Circumferential Struts	DL+OBE		21.6	≤ 1.0
Circumferential Struts	DL+TH+OBE		21.6	≤ 1.0
Circumferential Struts	DL+DBE		21.6	≤ 1.0
Circumferential Struts	DL+DBA+DBE		21.6	≤ 1.0
Radial Beam ²	Service Load (Dead Load+OBE)		27.0	≤ 1.0
Radial Beam ⁽²⁾	Design Load (Dead Load+DBE)		36.0	≤ 1.0

¹ Max Calculated Stress
Code Allowable Stress

² Stress levels outside the ice condenser – crane mass located outside ice condenser compartment