

**ICE CONDENSER ALLOWABLE LIMITS<sup>(1)</sup>**

Load Combination	Elastic Analysis			Limit Analysis (Load Factors) <sup>(2)</sup>	Test (Load Factors)
	Mechanical <sup>(3)</sup>	Mechanical & Thermal	Fatigue		
D + OBE	S <sup>(44)</sup>	3S	AISC-69 Part I	1.7	1.87
D + DBA	1.33 S	N/A	N/A	1.3	1.43
D + DBE	1.33 S	N/A	N/A	1.3	1.43
D + DBE + DBA	1.65 S	N/A	N/A	1.18	1.3

<sup>1</sup> For particular components that do not meet these limits specific justification shall be provided on a case by case basis.

<sup>2</sup> For mechanical loads only. Mechanical plus thermal expansion, combination and fatigue shall satisfy the elastic analysis limits.

<sup>3</sup> Membrane (direct) stresses shall be less than or equal to 0.7 Su (70% of ultimate stress).

<sup>4</sup> S = Allowable stresses as defined in Sections 1.5 and 1.6 of the AISC-69 Part I Specification.