



N92 0258

Figure 3-1. Typical PWR pressure vessel with welded plate construction. The beltline region welds are shown.

Table 3-1. Typical PWR pressure vessel steels with their chemical composition and mechanical properties (from the EPRI Reactor Pressure Vessel Materials Database).

Steel	Plant	Average chemistry (wt%)					Average mechanical properties (unirradiated)	
		Cu	Ni	P	S	YS (ksi)	RT _{NDT} (°F)	
SA302B	Point Beach-1 (2 heats)	0.16	—	0.013	0.020	62.9	—	
SA302B modified	Palisades (4 heats)	0.23	0.49	0.014	0.021	63.8	14	
SA533B-1	Diablo Canyon-1 (5 heats)	0.12	0.52	0.011	0.014	65.4	5	
SA533B-1 low Cu/P	Vogtle-1 (4 heats)	0.07	0.60	0.007	0.014	66.6	19	
SA508-2	North Anna-1 (3 heats)	0.15	0.79	0.013	0.014	73.4	28	
SA508-3	Braidwood-1 (3 heats)	0.04	0.72	0.008	0.007	64.1	-15	

