

TABLE 5.1-1

SYSTEM DESIGN AND OPERATING PARAMETERS *

Plant design life, years		40	
Number of heat transfer loops		4	
Design pressure, psig		2485	
Nominal operating pressure, psig		2235	
Total system volume including pressurizer and surge line (ambient conditions), ft ³		12,071 (Unit 1) 13,011 (Unit 2)	
System liquid volume, including pressurizer and surge line (ambient conditions), ft ³		11,351 (Unit 1) 12,291 (Unit 2)	
Total heat output (100 percent power), Btu/hr		11,844 x 10 ⁶	
Reactor vessel coolant temperature at full power:		High T _{avg}	Low T _{avg}
Inlet, nominal, °F	Unit 1	542.7	530.2
	Unit 2	542.8	530.3
Outlet, °F	Unit 1	613.1	601.8
	Unit 2	613.1	601.7
Coolant temperature rise in vessel at full power, avg, °F	Unit 1	70.4	71.6
	Unit 2	70.3	71.4
Total design coolant flow rate, lb/hr	Unit 1	125.3 x 10 ⁶	127.3 x 10 ⁶
	Unit 2	125.8 x 10 ⁶	127.9 x 10 ⁶
Design steam pressure at full power, psia (at 0% steam generator tube plugging)	Unit 1	869	778
	Unit 2	900	805

* Values are based on thermal design flow.