

BFN-23

TABLE 4.9-1

REACTOR WATER CLEANUP SYSTEM EQUIPMENT DESIGN DATA

MAIN CLEANUP RECIRCULATION PUMPS

Number Required: .....	2	Design Temperature (°F): .....	150
Capacity (each): .....	50%	Design Pressure (psig): .....	1300
Discharge Flow (gpm/pump): .....	180	Discharge Head at Rated Flow (ft): .....	500

HEAT EXCHANGERS

	Regenerative	Nonregenerative
Reactor Coolant Flow Rate (lb/hr)	133,000/187,530*	133,000/187,530*
Shell Side Pressure (psig)	1,450	150
Shell Side Temperature (°F)	575	370
Tube Side Pressure (psig)	1,450	1,450
Tube Side Temperature (°F)	575	575

FILTER-DEMINERALIZERS

Number Required: .....	2	Design Temperature (°F): .....	150
Capacity (each): .....	50%	Design Pressure (psig): .....	1450
Flow Rate/Unit (lb/hr): .....	66,650/93,765*		

Effluent Conductivity (mmho max):..... 0.1  
Effluent pH: ..... 6.5 to 7.5  
Effluent Insolubles (ppb-measured  
as residue on 0.45 micron filter  
paper):..... <10

\*Lower mass flow rate corresponds to the maximum flow of 270 gpm. Higher mass flow rate corresponds to the maximum flow of 340 gpm. Operation of RWCU above 270 gpm depends upon the ability of RBCCW to accommodate the added heat load.