

Steam Conditions - Turbine Inlet HP Section

Flow	kg/hr	19,200
Pressure	bara	23.00
Temp.	°C	310.0
Sat. Temp.	°C	219.6
Superheat	°C	90.4
Enthalpy	kJ/kg	3039.2
Entropy	kJ/kg-°C	6.7333

Steam Conditions - Extraction Zone

Pressure	bara	1.90
Enthalpy	kJ/kg	2703.0
Temp.	°C	118.6
Sat. Temp.	°C	118.6
Superheat	°C	0.0
Stm Quality	%	100.0

Steam Conditions - Turbine Inlet LP Section

Flow	kg/hr	9,400
Pressure	bara	1.85
Enthalpy	kJ/kg	2703.0
Temp.	°C	117.9
Sat. Temp.	°C	117.8
Superheat	°C	0.2

Steam Conditions - LP Turbine Exhaust

Pressure	bara	0.30
Temp.	°C	69.1
Sat. Temp.	°C	69.1
Superheat	°C	0.0
Enthalpy	kJ/kg	2493.0
Stm Quality	%	94.4
Iso Enthalpy re: HP Inlet	kJ/kg	2270.6
Turb Iso Eff - HP/LP	%	71.07

Power Output

Power - HP Sect.	kW	1793.1
Power - LP Sect.	kW	548.3
Total Shaft Power	kW	2341.4
Est. Mech. Losses - 3%	kW	-70.2
Output at Coupling	kW	2271.2
Est. Generator Losses - 3%	kW	-68.1
Output at Gen. Terminals	kW	2203.0