



	High Pressure Turbine			Low Pressure Turbine		
	Wheel Power, MWs	Stage Group Eff.	Dry Eff. BF=0.5	Wheel Power, MWs	Stage Group Eff.	Dry Eff. BF=1.0
CS	105.04	86.67%	87.94 %	—	—	—
1st	128.88	88.15%	91.23%	374.53	93.55%	93.55%
2nd	126.41	84.55%	89.18%	334.57	91.62%	95.54%
3rd	81.48	74.84%	80.52%	147.38	87.19%	95.48%
4th	—	—	—	126.51	85.54%	95.21 %
L-0 A	—	—	—	60.83	62.93%	73.61%
L-0 B	—	—	—	60.83	62.93%	73.61%
L-0 C	—	—	—	60.83	62.93%	73.61%

- NOTE:
- ASME 1967 Steam Tables.
  - Turbine performance is estimate, not guaranteed.
  - EFTR is estimated not guaranteed.
  - S/G, T/G, condenser, and feedwater heater performance assume clean conditions with 0% tube plugging.
  - Turbine and extraction arrangement is schematic only.
  - Feedwater heater vents are not modeled.
  - Scavenging steam modeled at 4.7% and 2.9% for 1st and 2nd stage reheater sections, respectively.
  - Cycle isolation is assumed. No fugitive, diversionary, bypass, or leakage flows are modeled (unless otherwise indicated).
  - S/G blowdown not modeled.
  - Generator power factor is used for computing variable losses. It should not be used in power flow calculations.
  - S/G leaving steam conditions are estimated based on Tcold=555°F.
  - Licensed thermal power is taken 3983 MWt with corresponding NSSS power taken as 4011.1 MWt.
  - The indicated HP turbine bowl pressure is for information. Control stage performance of the HP turbine is estimated based on partial admission.
  - Feedwater heaters TTD and DCA are scaled with heater tube-side mass flow rates.
  - The pressure drops in Main Steam and Extraction Steam lines are modeled based on volumetric fow rate.

Gross Power: 1584.8 MW  
NSSS Power: 4011.1 MWt

Doosan T/G TC6F-52" LSB 1800 rpm  
PEPSE Version 82

#### HEAT RECOVERY OPERATION - CASE 2

P - pressure, psia  
F - temperature, °F  
H - enthalpy, Btu/lbm  
# - flow Rate, lbm/hr  
x - quality

MW - Megawatts  
MWs - Megawatts Shaft  
MWt - Megawatts Thermal  
B - British Thermal Units  
kWh - Kilowatt Hours

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