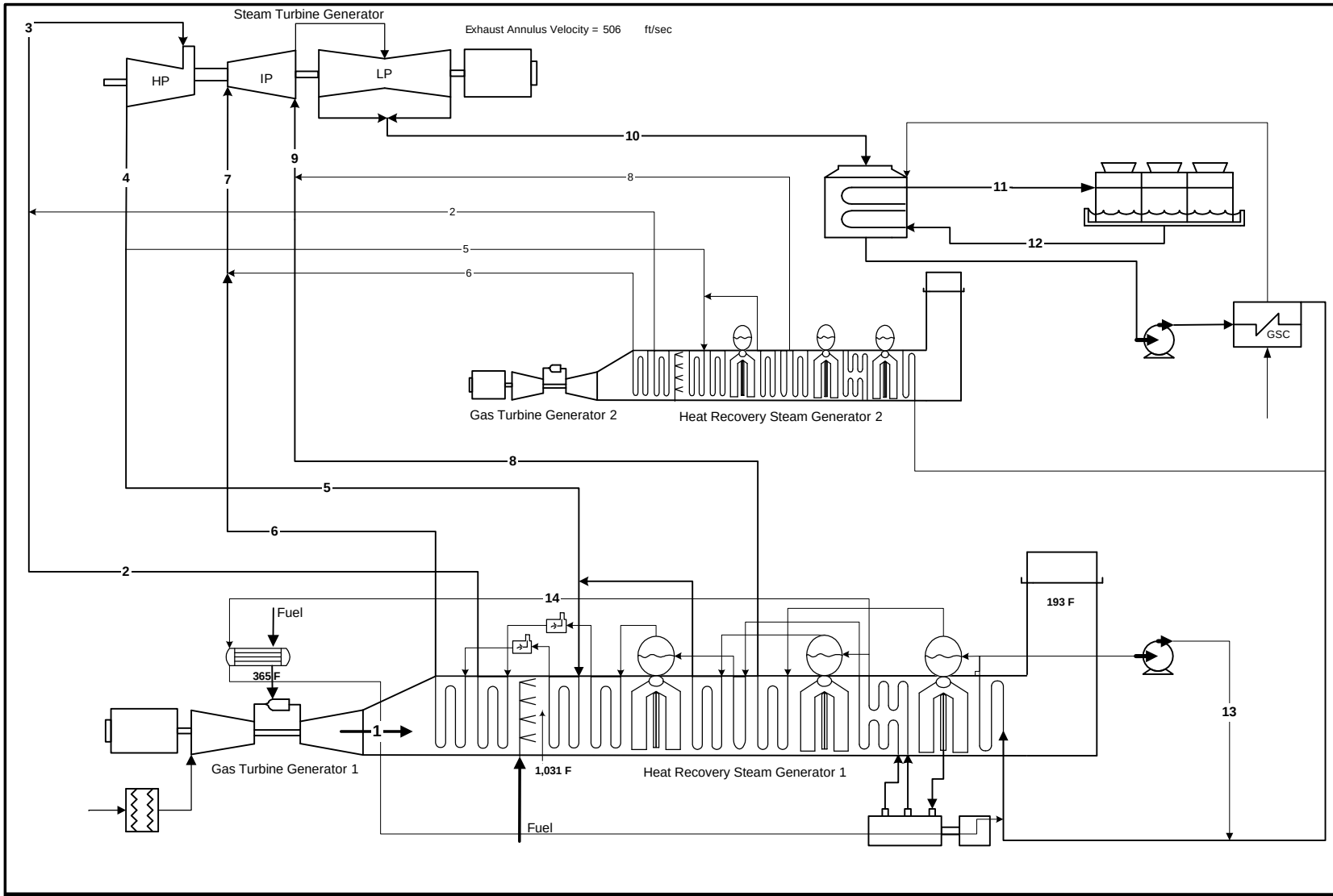

DESIGN CONDITIONS

Percent GT 1 Loading	100
Percent GT 2 Loading	100
Ambient Temp (F)	62
Rel. Humidity (%)	72
Elevation (feet)	750
Evap. Cooler Status	on
Supplemental Firing	off

SYSTEM PERFORMANCE

Gross GT Power (MW)	330.60
Gross ST Power (MW)	186.58
Auxiliary Loads (MW)	12.93
Net Output (MW)	504.25
Net Heat Rate, LHV (Btu/kWh)	6,169

FUEL FLOW

Gas Turbine 1, LHV (MMBtu/hr)	1,555
Gas Turbine 2, LHV (MMBtu/hr)	1,555
Duct Burner 1, LHV (MMBtu/hr)	-
Duct Burner 2, LHV (MMBtu/hr)	-
Total Fuel Flow (MMBtu/hr)	3,111

Burns & McDonnell
SINCE 1898

27085

FIGURE 2.4-3
Heat Balance at Base Load
2x1 7FA Combined Cycle
Palomar Energy Project

PARAMETER \ STREAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flow rate (lb/hr)	3,510,003	420,185	840,370	820,213	410,107	472,873	945,746	56,778	113,556	1,076,438	124,305	124,305	74,229	46,423		
Temperature (F)	1,119	1,051	1,049	699	697	1,051	1,049	606	604	104	94	77	-	-		
Pressure (psia)	-	1,547	1,467	401	382	362	344	62	57	1.06	-	-	-	-		
Enthalpy (Btu/lb)	-	1,519	1,520	1,363	1,363	1,552	1,551	1,335	1,334	1,044	-	-	-	-		

Average Ambient
Full Load- Unfired

DATE	REV
6/26/01	B