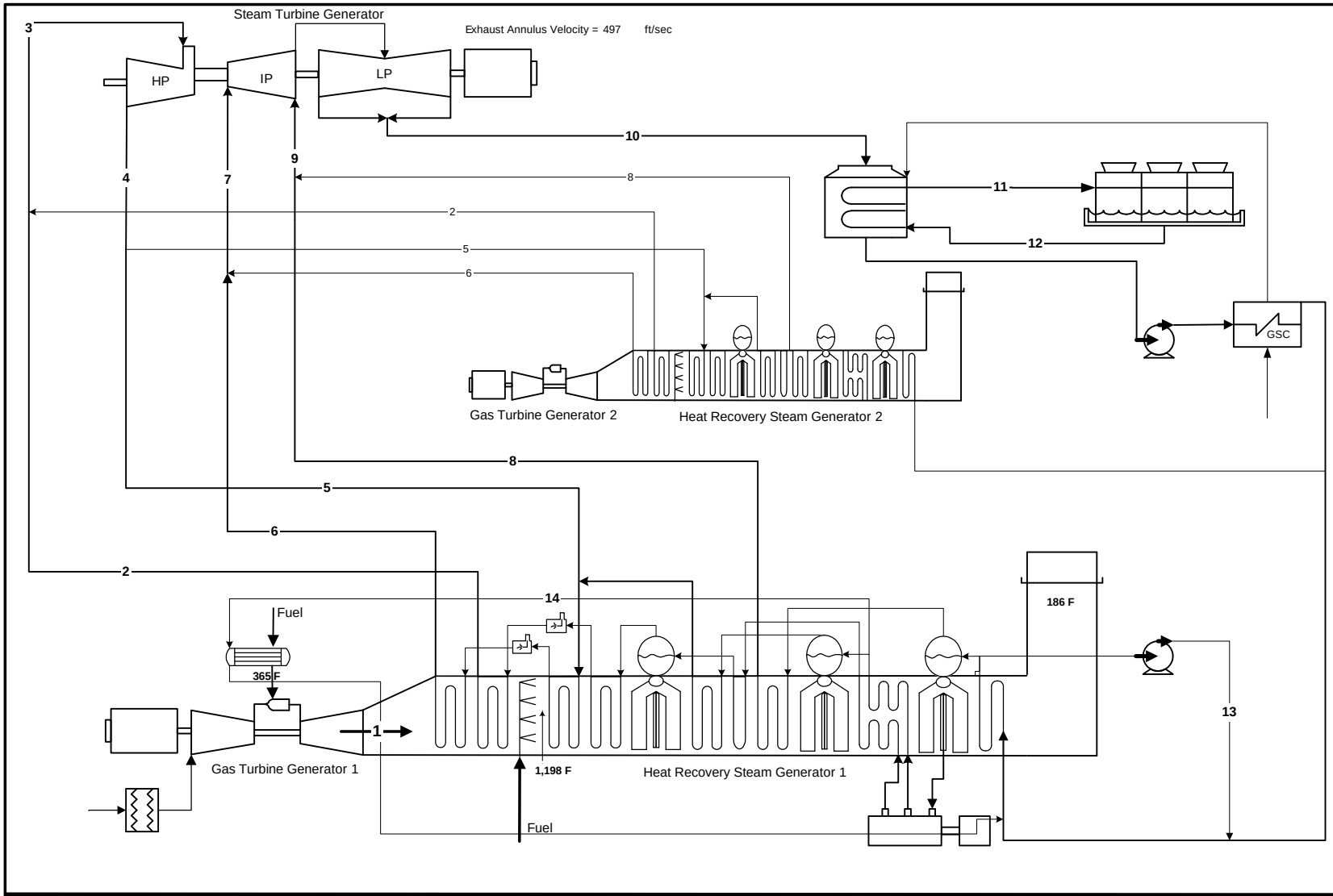

DESIGN CONDITIONS

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	on

SYSTEM PERFORMANCE

Gross GT Power (MW)	330.60
Gross ST Power (MW)	229.27
Auxiliary Loads (MW)	14.00
Net Output (MW)	545.87
Net Heat Rate, LHV (Btu/kWh)	6,293

FUEL FLOW

Gas Turbine 1, LHV (MMBtu/hr)	1,555
Gas Turbine 2, LHV (MMBtu/hr)	1,555
Duct Burner 1, LHV (MMBtu/hr)	162
Duct Burner 2, LHV (MMBtu/hr)	162
Total Fuel Flow (MMBtu/hr)	3,435

Burns & McDonnell
SINCE 1898

27085

FIGURE 2.4-4
Heat Balance at Peak 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	553,104	1,106,208	1,079,675	539,838	581,420	1,162,841	46,103	92,206	1,277,783	124,305	124,305	65,450	42,988		
Temperature (F)	1,119	1,047	1,045	680	678	1,048	1,046	646	644	110	99	80	-	-		
Pressure (psia)	-	2,008	1,905	495	469	444	422	70	67	1.29	-	-	-	-		
Enthalpy (Btu/lb)	-	1,504	1,505	1,347	1,347	1,548	1,547	1,354	1,354	1,042	-	-	-	-		

Average Ambient
Full Load-Fired

DATE	REV
6/26/01	B