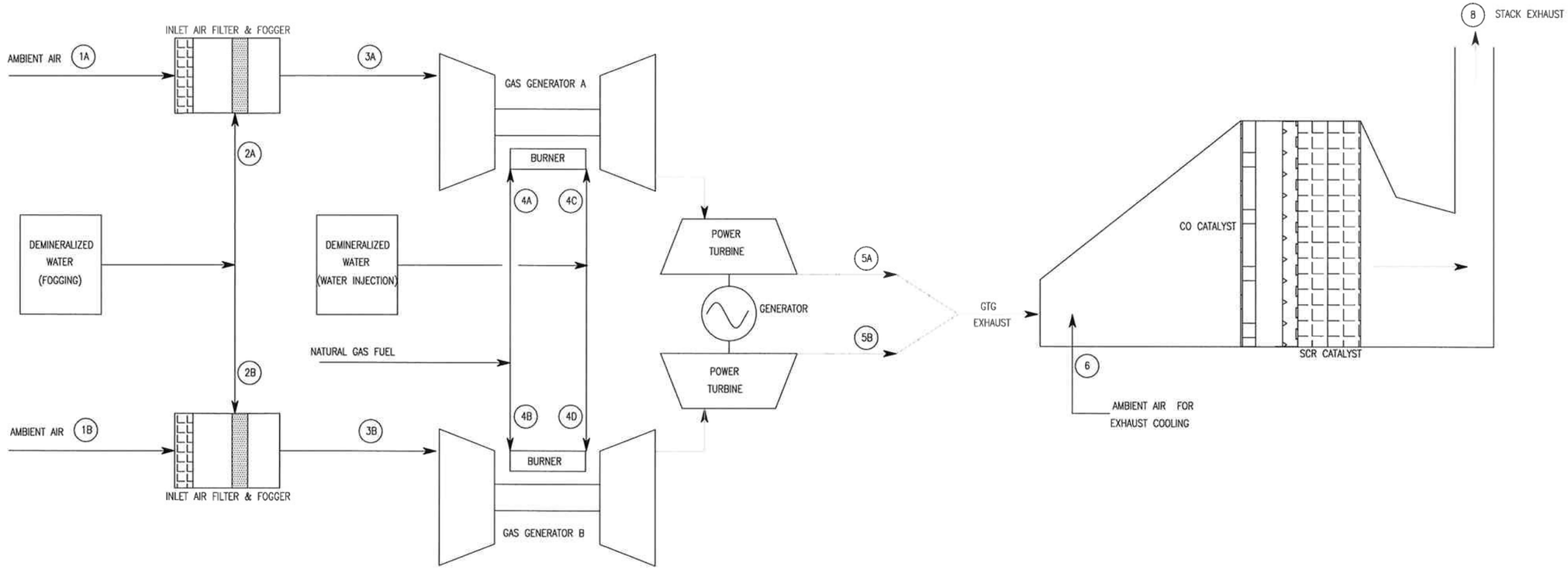
REV	DATE	DESCRIPTION	BY	APP
A	8/24/06	INITIAL ISSUE	RAR	DAT



Conditions: 114F/22% RH, 100% POWER, 410 FT ALTITUDE
GROSS POWER (PER UNIT): 54,867 KW
GROSS HEAT RATE (HHV): 10,600 BTU/KW-HR
GROSS HEAT INPUT (HHV) PER GT: 290.8 MMBTU/HR

PARAMETER	UNITS	1A Intake Air Unit A	1B Intake Air Unit B	2A Fog Water Unit A	2B Fog Water Unit B	3A Inlet Air Unit A	3B Inlet Air Unit B	4A Gas Fuel Unit A	4B Gas Fuel Unit B	4C Water Inj Unit A	4D Water Inj Unit B	5A Exhaust Unit A	5B Exhaust Unit B	6 Cooling Air to Exh	8 Stack Exhaust
TEMP DB	DEG F	114	114			80.8	80.8					933	933	114	750
TEMP WB	DEG F	80.8	80.8			80.8	80.8							80.8	
PRESSURE	PSIA	14.48	14.48			14.48	14.48							14.48	14.48
FLOW	PPH	644,940	644,940	4,860	4,860	649,800	649,800	12,743	12,743	11,490	11,490	670,680	670,680	430,920	1,772,280

NOTES:

1. THE HEAT/MASS BALANCE SHOWN IS FOR ONE SWIFT PAC UNIT. THE MIDWAY SITE WILL HAVE TWO SWIFT PAC UNITS. THEREFORE, THE FLOW RATES AND POWER OUTPUTS INDICATED IN THE TABLE ARE ACTUALLY 2x HIGHER FOR THE SITE.

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ENERGY SERVICES, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF ENERGY SERVICES, INC.

STARWOOD POWER - MIDWAY, LLC PEAKING PROJECT

FT8-3

Figure 3.4-3A **MASS/HEAT BALANCE (HIGH TEMP)**

2006