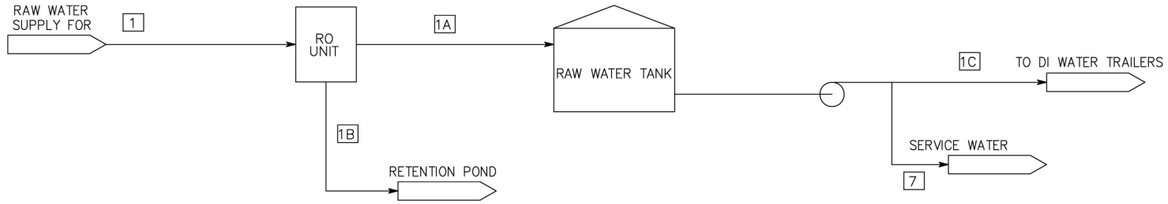
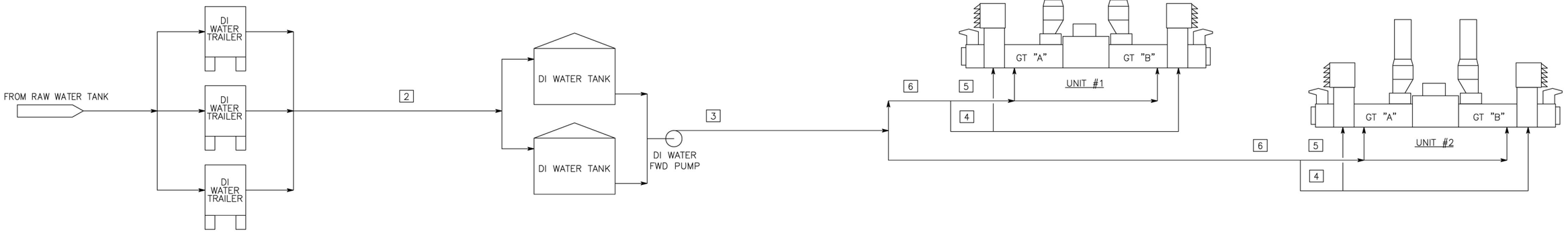
REV	DATE	DESCRIPTION	BY	APP
A	08-11-06	INITIAL ISSUE	RAR	DAT
B	10-17-06	GENERAL REVISION	RAR	DAT
C	10-25-06	DELETED REFERENCE TO POTABLE WATER	RAR	DAT
D	11-03-06	ADDED NOTE 4	RAR	DAT





STREAM NO.	DESCRIPTION	SUPPLY (GPM)	PEAK USAGE (NOTE 1) (GPM)
1	RAW WATER SUPPLY	100	–
1A	RO UNIT OUTPUT	75	–
1B	RO WASTE	25	–
1C	RAW WATER SUPPLY TO DI TRAILERS	70	–
2	DI TRAILER OUTPUT	70	–
3	DI WATER REQUIREMENT FOR (2) UNITS	–	138
4	FOGGING SYSTEM REQUIREMENT/UNIT (NOTE 2)	–	20
5	WATER INJECTION SYSTEM REQUIREMENT/UNIT (NOTE 3)	–	49
6	DI WATER REQUIREMENT/UNIT	–	69
7	SERVICE WATER (SEE NOTE 4)	INTERMITTENT	–

NOTES:

1. PEAK DEMAND (138 GPM) WILL BE REQUIRED FOR A 12 HOUR PERIOD/DAY. THIS TRANSLATES INTO APPROX. 100,000 GALLONS OF DI WATER WHICH WILL BE PROVIDED BY THE 150,000 GALLONS OF DI WATER IN THE STORAGE TANKS. RUNNING THE RO UNIT/DEMIN TRAILERS FOR 24 HR/DAY AT 70 GPM (75 GPM SUPPLY MINUS 5 GPM FOR SERVICE WATER) WILL PROVIDE SLIGHTLY MORE THAN 100,000 GALLONS/DAY OF MAKEUP DI WATER TO THE DI STORAGE TANKS. THUS, FLOW IS BALANCED.
2. INLET FOGGING REQUIREMENT IS BASED ON 114°F (DRY BULB), 22% RELATIVE HUMIDITY, 100% POWER CONDITIONS.
3. WATER INJECTION REQUIREMENT IS BASED ON 100% POWER, ISO CONDITIONS AND THE ASSUMPTION THAT NOx AT THE GT EXIT IS CONTROLLED TO 37 PPMVD, REFERENCED TO 15% O2.
4. SERVICE WATER SUPPLY WILL BE INTERMITTENT. PEAK SUPPLY SUPPLY = 5 GPM.

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STARWOOD POWER - MIDWAY, LLC PEAKING PROJECT	Figure 3.4-5	WATER BALANCE	2006