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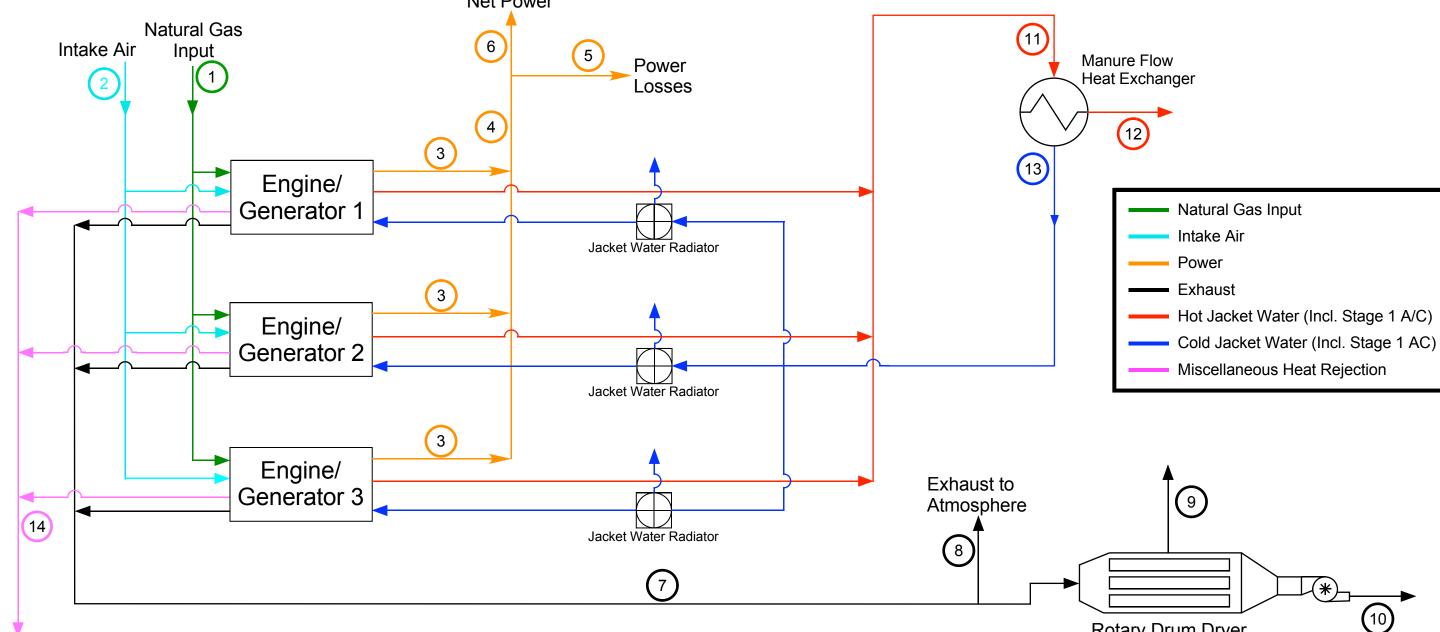
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WOF PNW Threemile Project LLC Topping Cycle Cogeneration Facility Heat and Mass Balance 07/18/19 Net Power



Miscellaneous Heat Rejection: Stage 2 Aftercooler, Lube Oil, Auxiliaries, Engine/Generator Heat to Atmosphere

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
		Natural Gas Fuel Supply	Air Intake (Total)	Gross Power (Each)	Gross Power (Total)	Power Losses (Total)	Net Power (Total)	Exhaust (Total)	Exhaust to Atmosphere (Excess)	Exhaust Heat Used in Fiber Dryer	Exhaust Heat Vented from Fiber Dryer to Atmosphere	Engine Jacket Water Heat (Total)	Engine Jacket Water Heat Used for Process Heating	Engine Jacket Water Heat to Radiators (Total)	Miscellaneous Heat Rejection (Total)	
kW				1,600	4,800	100	4,700									
High Temperature	°F		Ambient					887	887	887	228	204	204	176		
Low Temperature	°F							52	52	228	52	175	176	175		
Cp	Btu/lb•°F							0.283	0.283	0.286	0.274	0.861	0.861	0.856		
Mass Flow	lb/hr	2,241	61,659					63,900	3,071	60,829	60,829	325,312	325,312	325,312		
Heat Transfer	LHV Btu/hr	44,814,960			16,377,600	341,200	16,036,400	15,105,660	725,855	11,447,465	2,932,341	7,994,340	7,660,202	334,138	5,337,360	Net Heat
Heat Balance	LHV Btu/hr	44,814,960				-341,200	-16,036,400		-725,855	-11,447,465	-2,932,341		-7,660,202	-334,138	-5,337,360	0

Rotary Drum Dryer for Manure Fiber