



**Environmental Control Equipment
Data Sheet**

Item/Tag No.:		Page	1	of	3
Project No.:		Revision:	B		
Project:		Date:	27 February 2014		
P.O. No.:	-	By:	JS		
RFQ No.:	-	Checked:	SG		
Ref. P&ID:	-	Approved:	MS		
Client:		Supplier:	LEED FABRICATION		
Site:		Model No.:	Dual Head Flare		
Unit/Lease:		Remarks:			

GENERAL

1 Design Code:		NDE:	LEED Fabrication Standards		
2 Service:		Customer Specs:	<input type="checkbox"/> Yes		
3 Description:	Dual Head Flare		<input checked="" type="checkbox"/> No		

PROCESS DATA

Gas Composition:	mol %	Process Conditions:		
		Variable	Value	Units
4 Methane		Flow Rate	2.75 / 40	mmSCFD High Press. / mSCFD Low Press.
5 Ethane		Pressure	100 / 16	psig High Press. / oz/in2 Low Press.
6 Propane		Temperature		°F
7 I-Butane		Molecular Weight		
8 n-Butane		Process/Waste Stream	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Liquid
9 I-Pentane		Detailed Process Description / Process Notes:		
10 n-Pentane		1. Turndown 10:1. Based on an expected normal operating rate indicated above		
11 n-Hexane		2. Gas mixture heating value estimated to be 1500 BTU/SCF		
12 CO2		3. Actual gas composition varies by site		
13 N2		4. EPA NSPS 40 CFR Part 60 compliant		
14 Helium		5. 98% DRE		
15 H2O				
16 C7				
17 C8				
18 C9				
19 C10				
20 C11+				
21 TOTAL				
Other Components:	PPMV	Available Utilities:		
22 H2S		Fuel / Pilot Gas	Natural Gas: 40 SCFH / Propane 30 SCFH @ 5-7 psig	
23 Benzene		Instrument Air	NA	
24 Toluene		Power	120 V / 60 Hz or Solar Power	
25 E-Benzene		Steam	NA	
26 Xylene		Purge Gas	NA	

DESIGN DATA

27 Ambient Temperatures:		Noise Performance Requirements:	
28 Low, °F	-20	Structural Design Code:	
29 High, °F	120	Wind Design Code:	ASCE
30 Design Conditions:	Pressure/Temperature		
31 Max. Relative Humidity, %	90	Pressure/Speed	100 mph
32 Elevation (ASL), ft		Category	
33 Area Classification:	Class I Div 2	Seismic Design Code:	
34 Electrical Design Code:	NEC	Location	

EQUIPMENT SPECIFICATION

35 Type:	<input checked="" type="checkbox"/> Elevated <input type="checkbox"/> Enclosed	Equipment Design:	
36	<input type="checkbox"/> Above Ground	Component	Material / Size / Rating / Other
37	<input checked="" type="checkbox"/> Stack <input type="checkbox"/> Multiple Stack	Burner	
38	<input type="checkbox"/> Portable / Trailer	Burner Tip / Assist Gas Burner	304/316 SS
39		Burner Body	Carbon Steel
40 Smokeless By:	<input type="checkbox"/> Steam <input type="checkbox"/> Assist Air	Pilot	
41	<input type="checkbox"/> Gas Assist <input type="checkbox"/> Staging	Pilot Tip	304/316 SS
42		Pilot Line(s)	Carbon Steel
43 Stack:	<input checked="" type="checkbox"/> Self Supporting	Firebox / Stack	
44 Flare Burner:	<input type="checkbox"/> Non-Smokeless <input checked="" type="checkbox"/> Smokeless <input type="checkbox"/> Gas Assist	Shell	NA
45 Pilot:	<input checked="" type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Continuous	Piping	Carbon Steel
46 Pilot Air Inspirator:	<input checked="" type="checkbox"/> Local <input type="checkbox"/> Remote	Nozzles	Carbon Steel
47 Pilot Flame Control:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Thermocouple)	Flanges	Carbon Steel
48		Insulation	NA
49 Pilot Ignition:	<input type="checkbox"/> Flamefront Generator <input checked="" type="checkbox"/> Inspiring Ignitor	Insulation Pins	NA
50	<input type="checkbox"/> Electronic <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> Manual	Refractory	NA
51	<input type="checkbox"/> With Pilot Flame Control	Refractory Anchors	NA
52	<input type="checkbox"/> With Auto Pilot Re-Ignition	Ladders and Platforms	NA
53		Stack Sample Connections	NA
54 Pilot Ignition Backup:	<input type="checkbox"/> Manual Specify: i.e Piezo-Electric	Sight Glass	NA
55	<input type="checkbox"/> Battery Pack	Other	



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EQUIPMENT SPECIFICATION

56	Flame Detection:	<input type="checkbox"/> Thermocouple	<input checked="" type="checkbox"/> Ionization Rod	Auxiliary Equipment		
57		<input type="checkbox"/> UV Scanner		Valves	NA	
58	General Configuration:				Blowers	NA
59					Dampers	NA
60					Inlet KO / Liquid Seal	NA
61					Flame / Detonation Arrestor	Yes
62					Instrumentation & Controls	
63					Solenoids / Shut-Off Valves	Check with Sales for available config.
64					Flow Meters	NA
65					Calorimeter	NA
66					Pressure Switches/Transmitters	NA
67					Thermocouples	Check with Sales for available config.
68		Temperature Switches/Transmitters	NA			
69		BMS	Check with Sales for available config.			
70		CEMS	NA			
71		Other	NA			
72						
73						
74						
75						

FABRICATION AND INSPECTION

76	Special requirements	<input type="checkbox"/> Skid Mounted	<input checked="" type="checkbox"/> Concrete Pad	Equipment Info	
77		<input type="checkbox"/> Other		Component	Weight / Dimensions
78				Burner	
79	Inspection	<input checked="" type="checkbox"/> Vendor Standard		Burner Assembly	
80		<input type="checkbox"/> Other. Specify:		Stack	
81	Material Certification	<input checked="" type="checkbox"/> Vendor Standard		Stack Assembly	8" OD x 10' H
82		<input type="checkbox"/> MTR		Pilot Tip	
83		<input type="checkbox"/> Certificate of Compliance		Pilot Line(s)	
84		<input type="checkbox"/> Other (Specify):		Stack Assembly	
85	NDE	<input checked="" type="checkbox"/> Vendor Standard		Auxiliary Equipment	
86		<input type="checkbox"/> Radiography. Specify:		Blowers	
87		<input type="checkbox"/> Ultrasonic. Specify:		Inlet KO / Liquid Seal	
88		<input type="checkbox"/> Liquid Penetrant.		Flame / Detonation Arrestor	
89		<input type="checkbox"/> Magnetic Particles.		Skid	
90		<input type="checkbox"/> PMI. Specify:		Instrumentation & Controls	
91		<input type="checkbox"/> Other. Specify:		BMS	
92	Surface Preparation	<input checked="" type="checkbox"/> Vendor Standard		Control Panel	
93		<input type="checkbox"/> Other. Specify:			
94	Paint System	<input checked="" type="checkbox"/> Vendor Standard			
95		<input type="checkbox"/> Other. Specify:			
96	Finished Color	<input checked="" type="checkbox"/> Vendor Standard			
97		<input type="checkbox"/> Other. Specify:			
98					
99					

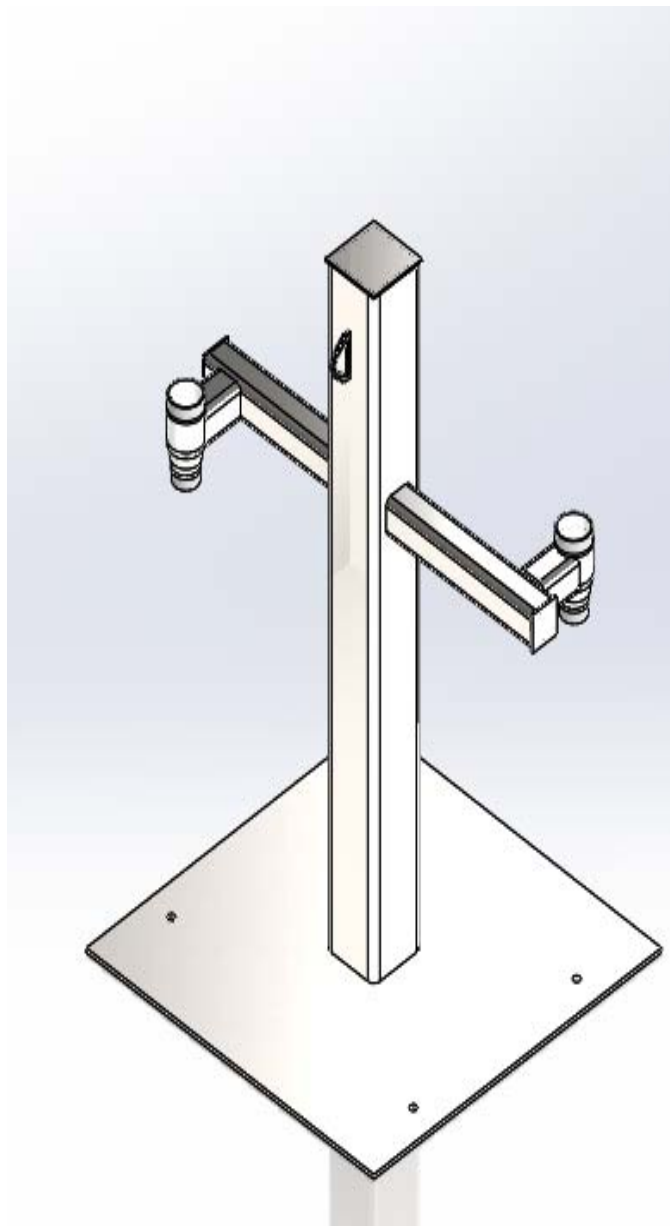
Additional Notes:



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GENERAL ARRANGEMENT



High Pressure

Low Pressure