Southwest Clean Air Agency

Notice of Construction Attachment

INDUSTRIAL FIELD ASSEMBLED BOILER INFORMATION

Pa	rent	Company Name	
Pla	ant N	Vame	
I.	Ger	neral (check appropriate square	e(s)):
	A.	Service Conditions:	Details:
		☐ Power Generation ☐ Process Steam ☐ Waste Heat Recovery ☐ Chemical Recovery ☐ Incineration Features ☐ Space Heat ☐ Other	
	В.	 Type and Model No.:	(Btu/hr)(Btu/lb or Btu/ft ³)
	C.	Characteristics: ☐ Fire Tube ☐ Water Tube ☐ Straight Tube ☐ Bent Tube	
	D.	☐ Wet Bottom ☐	Direct-Fired Solid Fuel Single-Fuel Burner(s) Combination Burner(s)

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☐ Mechanical Atomiza ☐ Rotary Cup ☐ Other	ation ☐ Steam Atomization ☐ Air Atomization		
Stoker-Fed:			
□ Over-Fed:	□ Traveling Grate□ Shaker Grate□ Stationary Grate		
☐ Under-Fed☐ Spreader☐ Hand			
Geometry:			
☐ Cyclonic ☐ Tangential ☐ Direct Entry ☐ Other			
Combustion Air:	Point(s) of Introduction:	Temperatures:	Preheated □
☐ Primary ☐ Secondary ☐ Tertiary ☐ Other			
II. Ratings:			
A. Steam Generation (lb/h	ur):		
1. Average Design Lo	oad Conditions:@	PSIG &	°F
2. Rated Boiler Capac	ities, Burning: (Fu	els:)	
a. Continuous	()()(_)()	
b. Peaking	Rate (lb/hr) Time P		
3. Turn-Down:			

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1.	. Inputs-1,000 Btu/h	ur (HHV):	(Fuels:)		
		()()()()	
2.	. Efficiencies: a. Over-all,				
	at conditions:			_	
	b. A.S.M.E. Shor	rt-form (for units >250	mmBtu/hr input)	Btu/lb Fuel Fire	ed
	(2) Energy los(3) Energy los	sorbed by boiler fluid: ss due to dry flue gases ss due to moisture in fu ss due to evaporating a	el:		_ _ _
	moisture f	formed by combustion as due to incomplete co	of hydrogen:		_
	(6) Energy los	ss due to combustible is ss due to radiation and			_ _ _
	(Based on	(Btu/lb) for	r)		
3.	. Applicable NSPS:				
	□ 40 CFR 60.40 □ 40 CFR 60.40	Oa (Subpart Da) >250 Ob (Subpart Db) ≥100) mmBtu/hr construction and ≤250 mmBtu/l	cted/modified after 8/12 cted/modified after 9/13 hr constructed/modified c constructed/modified	8/78 d after 6/19/84
4.	. NSPS Emission Lin	mits:			
	SO ₂ NO _x a	as NO ₂ PM	PM ₁₀ CO	VOC	
				⊐РМ□ СО	
III. Physic	cal Description:				
A.		rnace Parameters as applicable)	Dutch Oven Para (as applicable)	nmeters	
1.	. Reference				
2.	Dimensions:		-		
3.	. Grate Area:				

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B. Performance:

4. Water Cooled Surfaces				
Descriptions and square feet:				
a				
h			•	
			•	
			•	
			•	
5. Combustion Air Controls				
Describe				
6. Burner Specifications:				
Type, Make, Model #	Fuel Fired	Rating (Btu/hr)	Number Installed	
a				
b				
c				
7. Stoker Specifications (as appaa	-			
b				
8. Reinjection Details:				
9. Combustion Control (see also	o Section III-F):			
a. Description:				
b. Schematic Drawings:				

	a. Description of Method(s):		
	(1)		
	(2)		
3. E	Evaporative Sections (in addition to area pro	eviously noted):	
1	. Convection Area:	Surface Area (ft ²)	
	a. First Passb. Second Passc. Third Passd. Other (specify as fire tube, etc.)		
2 3	. Screen: Superheater:		
	a. Radiant b. Convection		_
4	. Reheat		
5	. Economizer		_
6	. Other (specify):		
C. S	oot Blowers:		
1	. Type, Make Model No.	Location	Number
2	. Operating Schedule(s):		

10. Ash Removal:

Steam Drums:		
Designation	Inside Dimensions	Number
Oraft Side Equipment:		
1. Air Preheater(s): Ty	•	Ratings
		<u> </u>
a. Forced Draft: (1) Maximum:	atings (max. design) © S.P. & Gas Conditions	Drive <u>Description (Horse Power)</u>
(2) Type, Make, Moo	lel:	
b. Induced Draft: (1) Maximum: Design:		
(2) Type, Make, Moo	lel:	
c. Other (specify):(1) Maximum:		

a. Configuration: b. Sampling Ports: Location	
c. Other Units Connected to Stack (list): d. Bypass Capability - explain: F. Instrumentation and Control: Controller/ Gage or Meter Recorder Manual Auto Schematic Reference	
d. Bypass Capability - explain: F. Instrumentation and Control: Controller/ Gage or Meter Recorder Manual Auto Schematic Reference	
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Controller/ Gage or Meter Recorder Manual Auto Schematic Reference	
Gage or Meter Recorder Manual Auto Schematic Reference	
1. Feed Water:	e
	_
2. Draft: (note)	
	-
3. Fuel: (note)	_
	-
	- -
4. Steam Flow:	
5. Flue Gas, Temperature, Emission Control, etc.: (note)	
a	
b	
e	
f	

		eters:					
A.	Fuels Burned	(list):				-	
	1. Maximum	n Rate:			,	-	
	2. Higher He Value (B' units as al	ΓU/same)(_)()		_) -	
	3. Proximate	e Anal. (as receive	ed): Average	Maximum			
	a. Moist b. Ash	ure					
	4. Ultimate / (wt.%, dr a. Sulfur	y basis)					
	b. Hydro c. Carbo	ogen n					
	d. Nitrog e. Oxyge						
В.	Operating Sc						
В.			hrough-Put (by q	uarter):			
В.		hedule:	hrough-Put (by q				
В.	1. Anticipate Fuel: Period: Dec-Feb Mar-May	hedule: ed % of Annual Tl					
В.	 Anticipate Fuel: Period: Dec-Feb 	chedule: ed % of Annual The following the content of the content					
	1. Anticipate Fuel: Period: Dec-Feb Mar-May Jun-Aug	hedule: ed % of Annual The set with the set			d		
	1. Anticipate Fuel: Period: Dec-Feb Mar-May Jun-Aug Sep-Nov ormal Schedule Period:	thedule: ed % of Annual The set with the se	Days/Wk		d		

desired is for maximum average firing conditions with the most likely fuel inputs.)

Firing conditions for following profile:

C. Gas Profiles (Please complete where data is readily obtainable or reasonably estimated. Underline all estimated values. Note that the profile

				Gas Conditions				Contaminant Loadings					
	Temp.	Velocity	Flow Rate	Static Press	Density	Moist.	O_2	CO ₂	PM	SO ₂	NO _x	as NO ₂	со
	(° F)	(FPM)	(ACFM)	("H ₂ O±)	(#/ F t ³)	(-Va	olume %	(gr/dscf)		(-ppm-)			
1. Combustion Air													
a. FD Fan:													
(1) Inlet]
(2) Outlet													
b. Primary Air													
c. Secondary Air													
d. Tertiary													
e. Other (note)													
2. Dutch Oven													
3. Combustion Chamber													
4. Furnace													
5. Passes: a. First													
b. Second													
c. Last													
6. Boiler Outlet													
7. Economizer: a. Flue Gas Inlet													

						Gas Conditions				Contaminant Loadings			
	Temp.	Velocity	Flow Rate	Static Press	Density	Moist.	O_2	CO ₂	PM	SO ₂	NO _x	as NO ₂	СО
	(° F)	(FPM)	(ACFM)	("H ₂ O±)	(#/ F t ³)	(-Va	olume %	-)	(gr/dscf)	(-ppm-)			
b. Flue Gas Outlet													
8. Preheater(s): a. Flue Gas Inlet													
b. Flue Gas Outlet													
9. Emission Control Sections: Description a.													
(1) Inlet													
(2) Outlet													
b.													
(1) Inlet													
(2) Outlet													
c.													
(1) Inlet													
(2) Outlet													
10. ID Fan: (1) Inlet													
(2) Outlet													
11. Stack Outlet													

V. Or	der-of-Magnitude Installed Cost Estimates:	(\$\$)
A.	Site Preparation	
	Foundations and Building(s) Basic Boiler (excluding items listing	
	in categories D-G below)	
D.	Boiler-Related	
	1. Fuels and Fuel-Preparation Systems	
	2. Feedwater and Feedwater Preparation Systems	
	3. Draft Equipment, Including Stack4. Instrumentation and Control Systems	
	5. Associated Piping, Electrical, Insulation, etc.	
	6. Other (specify):	
E.	Air Contaminant Control Sections:	
	(specify)	
	1	
	1. 2.	
	3.	
	4	
	5	<u> </u>
F.	Engineering, Administrative,	
	Supervisory and Start-up Expenses	
G.	Other (specify):	
	PROJECT TOTAL:	