VISIBLE EMISSION OBSERVATION FORM

SOURCE INFORMATION	
Company Name	OMAK WOOD PROD.
Address	1100 5TH AVE E OMAK, WA 98841
Phone #	509. 322. 7348
Source Description	BOILERS
I.D. #	1
Operating Mode / Output Rate	RUNNING 40,000
Control Equipment	WET SCRUBBERS
Operating Mode	

PLUME INFORMATION	@ START	@ END
Emission Point Description	STACK	
Height Above Ground	50'	
Height Relative to Observer	75'	
Distance from Observer	200yds.	
Direction from Observer	NW	
Plume Type : Continuous	✓	
: Intermittent		
: Fugitive		
Plume Color	WHITE	
Water Droplets Present?	NO	
: Attached Plume?	✓	
: Detached Plume?		
Point in the Plume at which Opacity was Observed	BESIN.	
Description of Background	P. HOUSE	
Color of Background	GRAY	
Condition of Sky	CLEAR	
Wind Speed (MPH)	0	
Wind Direction (from)	–	
Ambient Temperature (°F)	37°	
Relative Humidity	54%	

OBSERVATION RECORD

DATE 12.2.13 | TIME Start 12:01 PM | End 12:28 PM

Min	Seconds 0	15	30	45
1	10	10	10	5
2	10	5	5	15
3	5	15	5	10
4	10	20	15	10
5	10	10	10	5
6	5	15	15	10
7	10	5	5	10
8	5	10	5	5
9	0	0	5	10
10	0	10	5	0
11	0	0	0	5
12	0	5	5	5
13	0	5	10	10
14	5	10	10	10
15	10	20	10	5
16	10	10	5	10
17	10	5	5	0
18	5	0	0	5
19	0	10	10	10
20	10	15	10	5
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Min	Seconds 0	15	30	45
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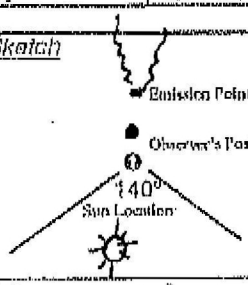
Source Layout Sketch



Key: SUN ☼ WIND ⇨ PLUME ≈

Range of Opacity Readings	Maximum	20 %
	Minimum	0 %
Number of Readings Above 20 %		0
Average Opacity for 80 Readings =		7.312 %

Comments

Observer's Name (print)	CONNIE CHANEY
Organization:	OMAK WOOD PRODUCTS, LLC
Certified By: SMOKE SCHOOL INC.	Date 9.24.13
Observer's signature	Date 12.2.13

RP 1/94

OMAK WOOD PRODUCTS

POWERHOUSE

BOILER

DATE 12-1-13 TSF 285003	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 4888	8.6	1.5	
1:00 AM 5664	8.3	1.6	
2:00 AM 3878	7.4	1.2	
3:00 AM 4714	7.2	1.2	
4:00 AM 3890	6.4	1.0	
5:00 AM 3762	7.2	1.1	
6:00 AM 4779	7.3	1.2	
7:00 AM 3751	7.2	1.1	
8:00 AM 4052	7.4	1.4	
9:00 AM 4524	7.8	1.3	
10:00 AM 4127	8.6	1.5	
11:00 AM 4154	7.5	1.2	
12:00 PM 4667	7.8	1.3	
1:00 PM 3392	7.4	1.2	
2:00 PM 4396	8.1	1.4	
3:00 PM 4283	7.5	1.2	
4:00 PM 4014	8.8	1.6	
5:00 PM 3873	6.6	1.0	
6:00 PM 3649	7.3	1.2	
7:00 PM 3611	6.6	1.0	
8:00 PM 3647	7.0	1.1	
9:00 PM 4276	6.7	1.1	
10:00 PM 3854	6.5	1.0	
11:00 PM 3498	6.4	0.9	

OMAK WOOD PRODUCTS

POWERHOUSE

BOILER

DATE 11-29-13 813959	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 3946	7.1	1.2	
1:00 AM 4258	9.0	1.8	
2:00 AM 4444	8.4	1.6	
3:00 AM 4257	8.7	1.6	
4:00 AM 4040	7.4	1.3	
5:00 AM 4129	7.5	1.0	
6:00 AM 4032	7.2	1.2	
7:00 AM 4413	8.1	1.5	
8:00 AM 4441	10.5	2.7	
9:00 AM 3596	6.8	1.1	
10:00 AM 4184	8.9	1.8	
11:00 AM 3613	7.4	1.2	
12:00 PM 4013	8.4	1.5	
1:00 PM 4808	8.2	1.4	
2:00 PM 4602	7.1	1.2	
3:00 PM 4324	8.4	1.5	
4:00 PM 4527	8.1	1.5	
5:00 PM 4215	8.7	1.6	
6:00 PM 4886	9.0	1.7	
7:00 PM 4125	8.5	1.6	
8:00 PM 4245	8.0	1.4	
9:00 PM 4315	7.9	1.4	
10:00 PM 4056	7.4	1.3	
11:00 PM 4541	7.6	1.3	

OMAK WOOD PRODUCTS

TSF 803617

POWERHOUSE
BOILER #1

DATE 11-28-13	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 4077	7.2	1.3	
1:00 AM 3980	8.1	1.5	
2:00 AM 3997	8.1	1.5	
3:00 AM 4320	7.6	1.4	
4:00 AM 4041	8.6	1.7	
5:00 AM 4101	7.2	1.3	
6:00 AM 3828	7.4	1.3	
7:00 AM 4080	7.4	1.3	
8:00 AM 4030	10.5	2.8	
9:00 AM 4046	8.5	1.6	
10:00 AM 4207	7.3	1.3	
11:00 AM 4305	8.5	1.6	
12:00 PM 4044	7.2	1.3	
1:00 PM 4023	7.9	1.4	
2:00 PM 4054	8.0	1.5	
3:00 PM 3996	7.6	1.4	
4:00 PM 4002	8.0	1.5	
5:00 PM 4326	8.1	1.5	
6:00 PM 4098	8.2	1.5	
7:00 PM 4335	7.6	1.6	
8:00 PM 4240	7.9	1.4	
9:00 PM 4246	8.1	1.5	
10:00 PM 4330	8.2	1.4	
11:00 PM 4191	10.0	2.2	

OMAK WOOD PRODUCTS

TSF — 803617

POWERHOUSE
BOILER

DATE 11-27-13	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 4722	7.6	1.4	
1:00 AM 4858	7.8	1.5	
2:00 AM 4712	6.7	1.2	
3:00 AM 5389	7.6	1.4	
4:00 AM 5208	7.3	1.3	
5:00 AM 4903	7.0	1.3	
6:00 AM 5569	8.0	1.6	
7:00 AM 5185	8.3	1.6	
8:00 AM 6062	10.3	2.8	
9:00 AM 6749	8.5	1.7	
10:00 AM 6161	7.8	1.5	
11:00 AM 5794	7.5	1.3	
12:00 PM 6369	7.9	1.5	
1:00 PM 5551	6.7	1.2	
2:00 PM 6778	7.2	1.4	
3:00 PM 7601	8.4	1.6	
4:00 PM 5524	7.6	1.4	
5:00 PM 5160	7.7	1.5	
6:00 PM 4911	8.1	1.6	
7:00 PM 4834	7.2	1.4	
8:00 PM 4895	8.6	1.7	
9:00 PM 4176	8.0	1.5	
10:00 PM 4113	7.1	1.3	
11:00 PM 4303	7.1	1.2	

11-26-13
790610

	Flow	scrubber	collector
12:00	4767	7.7	1.4
1:00	4310	7.3	1.3
2:00	4760	7.3	1.3
3:00	4981	7.1	1.2
4:00	6415	8.2	1.6
5:00	6338	8.5	1.7
6:00	7012	8.8	1.8
7:00	~~7.6~~ 5550	7.6	1.5
8:00	4811	10.2	2.8
9:00	5219	7.4	1.4
10:00	4540	6.7	1.2
11:00	5596	7.7	1.4
12:00	5191	8.3	1.7
1:00	5055	7.7	1.5
2:00	4888	7.5	1.3
3:00	4567	7.5	1.4
4:00	4100	7.7	1.5
5:00	4087	7.2	1.3
6:00	4072	7.6	1.4
7:00	4216	7.2	1.2
8:00	3884	6.9	1.3
9:00	3989	7.5	1.2
10:00	4083	6.8	1.2
11:00	4300	6.8	1.2