VISIBLE EMISSION OBSERVATION FORM

SOURCE INFORMATION	
Company Name	OMAK WOOD PRODUCTS
Address	1100 E. 8TH AVE. OMAK, WA 98841
Phone #	509.322.7348
Source Description	I.D. #
Operating Mode / Output Rate	
Control Equipment	Operating Mode

PLUME INFORMATION	@ START	@ END
Emission Point Description	STACK	
Height Above Ground		
Height Relative to Observer		
Distance from Observer		
Direction from Observer		
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	Beginning	
Description of Background	SKY	
Color of Background	BLUE	
Condition of Sky	Mostly Sunny	
Wind Speed (MPH)	6	
Wind Direction (from)	S	
Ambient Temperature (°F)	46°	
Relative Humidity	76%	

OBSERVATION RECORD

DATE 11.13.13 | TIME Start 11:50AM | End

Min	Seconds 0	15	30	45
1	0	5	5	0
2	5	5	10	0
3	0	5	5	10
4	10	10	10	5
5	10	10	5	5
6	0	0	0	0
7	5	15	10	0
8	0	5	5	5
9	0	0	5	5
10	5	10	5	0
11	10	10	10	5
12	20	20	15	10
13	10	10	5	5
14	5	5	5	0
15	10	10	5	10
16	5	10	10	5
17	5	0	0	5
18	5	5	5	0
19	10	15	10	10
20	5	5	10	5
21	10	5	10	15
22	10	15	20	15
23	15	20	20	15
24	10	5	5	10
25	10	10	15	20
26	15	25	45	55
27	40	30	35	30
28	20	15	10	10
29	10	10	15	12
30	10	5	5	5

Min	Seconds 0	15	30	45
31				
32				
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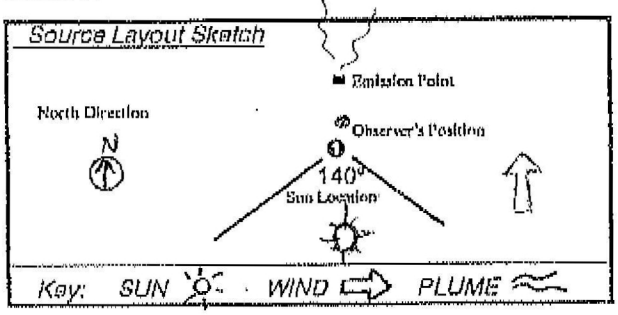
Source Layout Sketch



Range of Opacity Readings	Maximum	%
	Minimum	%
Number of Readings Above ____ %		
Average Opacity for ____ Readings =		%

Observer's Name (print)

Organization:

Certified By: | Date

Observer's signature | Date

Comments

RP 1/94

VISIBLE EMISSION OBSERVATION FORM

SOURCE INFORMATION	
Company Name	OMAK WOOD PRODUCTS
Address	1100 8th AVE E OMAK, WA 98841
Phone #	509.322.7340
Source Description	BOILER
I.D. #	1
Operating Mode / Output Rate	40000 RUNNING
Control Equipment	WET SCRUBBERS
Operating Mode	

PLUME INFORMATION	@ START	@ END
Emission Point Description	STACK	
Height Above Ground	50'	
Height Relative to Observer	180'	
Distance from Observer	225 yds	
Direction from Observer	NE	
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	BEGIN.	
Description of Background	P. HOUSE	
Color of Background	GRAY	
Condition of Sky	CLOUDY	
Wind Speed (MPH)	0	
Wind Direction (from)		
Ambient Temperature (°F)	39°	
Relative Humidity	82%	

OBSERVATION RECORD

DATE 11.18.13 | TIME Start 1:30 PM | End 1:50 PM

Min	Seconds 0	15	30	45	Min	Seconds 0	15	30	45
1	10	10	5	10	31				
2	0	0	5	5	32				
3	0	0	0	5	33				
4	5	5	5	10	34				
5	15	10	10	15	35				
6	10	5	5	10	36				
7	10	5	0	0	37				
8	5	5	10	5	38				
9	5	5	10	0	39				
10	0	5	5	5	40				
11	0	0	5	5	41				
12	10	5	15	20	42				
13	15	10	25	20	43				
14	10	5	5	10	44				
15	5	0	5	10	45				
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17					47				
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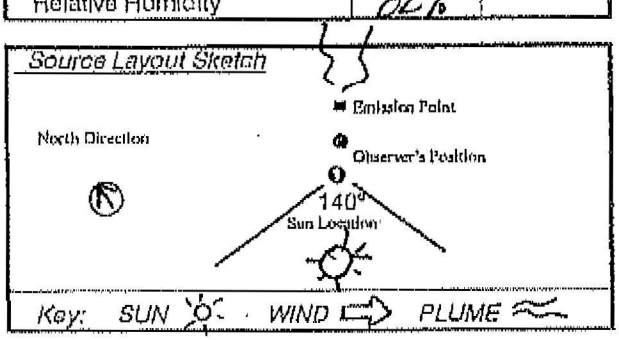
27					57				
28					58				
29					59				
30					60				

Source Layout Sketch



Range of Opacity Readings	Maximum	0 %
	Minimum	25 %
Number of Readings Above ___ %		1
Average Opacity for 60 Readings =		6.833 %

Observer's Name (print) CONNIE CHAVEY

Organization: OMAK WOOD PRODUCTS, LLC

Certified By: SMOKE SCHOOL INC. Date 9.24.13

Observer's signature Date 11.18.13

Comments

RP 1/94

VISIBLE EMISSION OBSERVATION FORM

SOURCE INFORMATION

Company Name: OMAK WOOD PROD.

Address: 1100 9TH AVE. E
OMAK, WA 98871

Phone #: 509.322.7348

Source Description: BOILER

I.D. #: 1

Operating Mode / Output Rate: RUNNING 40,000

Control Equipment: WET SCRUBBER

Operating Mode:

PLUME INFORMATION	@ START	@ END
Emission Point Description	STACK	
Height Above Ground	50'	
Height Relative to Observer	50'	
Distance from Observer	190 yds	
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	BEGIN.	
Description of Background	P. HOUSE	
Color of Background	GRAY	
Condition of Sky	MOSTLY CL.	
Wind Speed (MPH)	0	
Wind Direction (from)		
Ambient Temperature (°F)	40°	
Relative Humidity	73%	

OBSERVATION RECORD

DATE 11.16.13 | TIME Start 10:59am | End 11:34am

Min	Seconds 0	15	30	45
1	5	10	10	10
2	10	10	5	5
3	5	5	10	5
4	5	15	15	20
5	20	15	15	10
6	20	15	15	10
7	25	15	25	20
8	10	10	10	5
9	10	10	10	10
10	20	25	35	30
11	20	15	10	10
12	10	15	10	10
13	10	5	5	5
14	10	10	5	10
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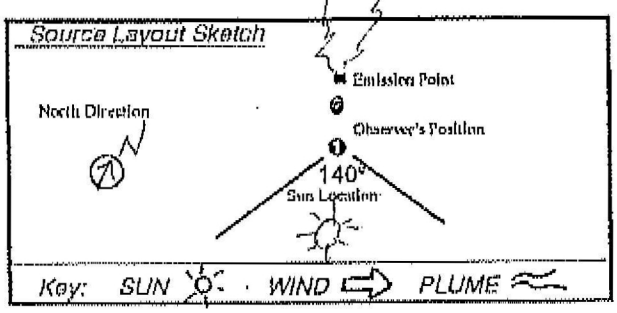
Source Layout Sketch



Comments

Range of Opacity Readings	Maximum	5 %
	Minimum	35 %
Number of Readings Above 20 %		5
Average Opacity for 80 Readings =		11.81 %

Observer's Name (print): CONNIE CHANEY

Organization: OMAK WOOD PRODUCTS

Certified By: SMOKE SCHOOL INC. Date 9.27.13

Observer's signature: Date 11.16.13

RP 1/94

OMAK WOOD PRODUCTS

TSF 686073

POWERHOUSE
BOILER

DATE 11-17-13	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 4190	8.5	1.5	
1:00 AM 4200	9.0	1.6	
2:00 AM 4246	8.6	1.6	
3:00 AM 4155	8.8	1.6	
4:00 AM 4317	8.3	1.4	
5:00 AM 4409	8.0	1.3	
6:00 AM 3854	7.2	1.2	
7:00 AM 5022	7.7	1.3	
8:00 AM 4760	10.6	2.7	
9:00 AM 5169	9.5	1.7	
10:00 AM 3756	7.6	1.3	
11:00 AM 4085	9.0	1.6	
12:00 PM 4105	9.2	1.8	
1:00 PM 4000	7.6	1.3	
2:00 PM 4088	7.8	1.3	
3:00 PM 3695	6.9	1.1	
4:00 PM 3536	8.5	1.6	
5:00 PM 3461	7.6	1.3	
6:00 PM 3686	7.2	1.2	
7:00 PM 3514	7.3	1.2	
8:00 PM 3446	7.4	1.3	
9:00 PM 3695	7.6	1.2	
10:00 PM 3422	7.4	1.2	
11:00 PM 3253	6.8	1.1	

OMAK WOOD PRODUCTS

POWERHOUSE

BOILER

676144

DATE 11-16-13	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 3815	7.6	1.4	
1:00 AM 3735	7.8	1.4	
2:00 AM 3721	7.2	1.1	
3:00 AM 3940	7.4	1.3	
4:00 AM 3750	6.9	1.1	
5:00 AM 3748	7.1	1.1	
6:00 AM 4761	6.6	1.0	
7:00 AM	7.0	1.1	
8:00 AM 4421	11.6	2.6	
9:00 AM 4228	8.6	1.6	
10:00 AM 4488	7.0	1.1	
11:00 AM 3424	6.8	1.1	
12:00 PM 6048	10.7	2.1	
1:00 PM 5354	8.2	1.5	
2:00 PM 4643	8.5	1.6	
3:00 PM 3351	7.7	1.1	
4:00 PM 3579	7.4	1.2	
5:00 PM 3557	7.6	1.3	
6:00 PM 4211	8.1	1.4	
7:00 PM 4215	8.9	1.7	
8:00 PM 4272	7.8	1.3	
9:00 PM 3954	7.9	1.3	
10:00 PM 4360	7.6	1.2	
11:00 PM 4468	9.6	1.8	

OMAK WOOD PRODUCTS

POWERHOUSE
BOILER

666343

DATE 11-15-13	FLOW	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM	4577	7.8	1.4	
1:00 AM	4710	6.1	1.0	
2:00 AM	4572	6.5	1.1	
3:00 AM	4505	6.3	1.0	
4:00 AM	5086	7.8	1.4	
5:00 AM	4931	8.0	1.5	
6:00 AM	6119	7.3	1.2	
7:00 AM	5834	6.1	0.9	
8:00 AM	5331	7.9	1.4	
9:00 AM	5120	7.8	1.4	
10:00 AM	4558	10.5	2.3	
11:00 AM	4812	8.5	1.6	
12:00 PM	4632	6.8	1.1	
1:00 PM	4891	7.2	1.2	
2:00 PM	5714	8.6	1.6	
3:00 PM	4470	7.1	1.2	
4:00 PM	5620	10.1	2.2	
5:00 PM	4319	8.1	1.5	
6:00 PM	4620	8.3	1.7	
7:00 PM	4442	8.5	1.6	
8:00 PM	4048	8.0	1.3	
9:00 PM	4052	7.5	1.3	
10:00 PM	3843	6.7	1.1	
11:00 PM	4172	6.8	1.2	

OMAK WOOD PRODUCTS

654841

POWERHOUSE
BOILER

DATE Flow 11-14-13	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	O^2 PERCENT
12:00 AM 3712	6.0	1.0	
1:00 AM 4501	7.0	1.2	
2:00 AM 4661	6.6	1.1	
3:00 AM 4380	6.6	1.1	
4:00 AM 3182	5.9	1.0	
5:00 AM 3419	6.4	1.1	
6:00 AM 3825	7.2	1.2	
7:00 AM 3337	6.8	1.2	
8:00 AM 3507	6.9	1.2	
9:00 AM 3674	6.1	1.0	
10:00 AM 4237	6.2	1.0	
11:00 AM 4344	9.5	2.7	
12:00 PM 4220	8.1	1.9	
1:00 PM 4708	9.0	2.0	
2:00 PM 4866	8.0	1.7	
3:00 PM 4855	8.3	1.7	
4:00 PM 4788	11.1	2.5	
5:00 PM 3511	6.5	1.1	
6:00 PM 3512	6.0	0.9	
7:00 PM 4521	8.2	1.6	
8:00 PM 4632	7.2	1.2	
9:00 PM 4272	7.2	1.3	
10:00 PM 4310	7.3	1.3	
11:00 PM 4041	7.6	1.3	

OMAK WOOD PRODUCTS

POWERHOUSE

BOILER

634 605

DATE Boiler Flow 11-13-13	SCRUBBER PRESSURE DROP	MULTICONE PRESSURE DROP	~~O2 PERCENT~~ ~~Boiler Flow~~
12:00 AM	7.7	1.4	
1:00 AM	6.1	1.1	
2:00 AM	6.8	1.1	
3:00 AM	7.0	1.2	
4:00 AM	7.2	1.3	
5:00 AM	7.6	1.4	
6:00 AM	7.0	1.2	
7:00 AM	7.1	1.3	
8:00 AM	10.6	2.8	
9:00 AM	8.4	1.6	
10:00 AM	7.0	1.4	
11:00 AM	7.6	1.4	
12:00 PM	6.4	1.9	
1:00 PM	7.0	1.2	
2:00 PM	7.4	1.5	
3:00 PM 4317	8.6	1.7	~~4317~~
4:00 PM 4947	8.4	1.8	
5:00 PM 4799	9.5	1.4	
6:00 PM 3529	7.1	1.1	
7:00 PM 3413	7.5	1.3	
8:00 PM 3871	7.8	1.4	
9:00 PM 3917	7.5	1.4	
10:00 PM 4120	6.6	1.2	
11:00 PM 3639	6.0	0.9	