Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

Attach to test report. No separate entry required

Louisiana-Pacific Corporation

111 S.W. Fifth Avenue
Portland, Oregon 97204
503/221-0800
FAX: 503/796-0204

September 29, 1995

Mr. Michael F. Wood, Director
Mr. Laxmi Kesari
Multi Media Enforcement & Strategic
Planning Division
U.S. EPA
Aerials Rios Blvd.
1200 Pennsylvania N.W., 7th Floor
Room 3119C
Washington, D.C. 20004

Re: Clean Air Enforcement Action - United States v. Louisiana-Pacific Corporation, No. CV 93-0869 (W.D. La.)

Subject: Source Acceptance Test Results for Louisiana-Pacific Corporation Silsbee Oriented Strandboard Plant

Dear Gentlemen:

As required by the above reference Consent Decree, please find the Source Acceptance Test results for Silsbee OSB. The results indicate that the control equipment has not achieved the pollutant destruction efficiencies as specified in the decree and the Texas Natural Resource Conservation Commission (TNRCC) permit issued for the facility. A letter to TNRCC is attached concerning the lower than expected control efficiencies and L-P's efforts to correct the situation.

Additional appendices to the report containing analytical summaries, continuous emission monitoring recordings, field data sheets and equipment calibrations are available upon request. These appendices contained over 500 pages and made the submittal too large for this mailing.

We are available to discuss the results of this report with EPA. Please contact us at your convenience.

Sincerely,

Elizabeth T. Smith

Elizabeth T. Smith, Director
Environmental Affairs

ETS:sam

Enclosures

cc w/ copy: U.S. EPA, Region 6, Air, Pesticides & Toxic Division, Dallas, TX

cc w/out copy: Julie Domike, U.S. EPA, Office of Civil Enforcement, Washington, DC
Texas Natural Resource Conservation Commission
Norm Radford Jr. - Vinson & Elkins, Dallas, TX
Gene Meyers
Jim Boswell
Joe Olson
Lauri Newton
file

Louisiana-Pacific Corporation

P.O. Box 3107
Conroe, Texas 77305
409/756-0511

September 15,1995

Texas Natural Resource
Conservation Commission
Source and Mobile Monitoring Section
P.O. Box 13087
Austin, TX 78711-3087

Ref: Louisiana-Pacific Silsbee OSB
Permit No. 19695; Acct. No. HF-0010-B
New Waverly OSB Permit No. 17102 and
PSD-TX-830; Acct. No. WA-0024-A
Corrigan OSB Permit No. 17101;
Acct. No. PF-0008-D

Dear Sir or Madam:

Attached are stack sampling reports for emissions from the regenerative thermal oxidizers at the facilities referenced above. Louisiana-Pacific (L-P) is working with the manufacturer, REECO, to more fully optimize these units for increased destruction efficiency of CO, VOC and formaldehyde while reducing or producing no additional No_x. Within 90 days, L-P will fully evaluate the R-T-O operations and either provide new test information showing compliance with the existing permit emissions or provide new emission information and a permit amendment application for those facilities and specific parameters as appropriate.

Attached to this letter are Forms PI-3A and PI-3B for each facility. Please note that at this time Louisiana-Pacific Corporation is proceeding to work diligently to meet all emission limits of the appropriate permits.

Very truly yours,

James T. Boswell

James T. Boswell, Ph.D.
Director, Environmental Control

JTB/tw

Enclosures

cc: Marion Everhart, TNRCC, Beaumont
John Knierim, Plant Mgr., Corrigan
Joe Olson, Mgr., Silsbee OSB
Jerry Stokeld, Plant Mgr., New Waverly

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James T. Boswell

James T. Boswell, Ph.D.
Director, Environmental Control

JTB/tw

Enclosures

cc: Marion Everhart, TNRCC, Beaumont
John Knierim, Plant Mgr., Corrigan
Joe Olson, Mgr., Silsbee OSB
Jerry Stokeld, Plant Mgr., New Waverly

Oxidizer Efficiency Sampling
Kirby Forest Products
Silsbee, TX
July 11 - 14, 1995
Armstrong Environmental, Inc.
Project W-1713-95

Report Prepared For:
Mr. James Boswell
Louisiana-Pacific Corporation
PO Box 3107
Conroe, TX 77305

Report Prepared July 22, 1995 By:
Armstrong Environmental, Inc.
7715 Sovereign Row
Dallas, Texas 75247
(214) 631-0021

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I. INTRODUCTION

A series of tests were performed on the exhausts associated with Dryers #1, #2, #3 and #5, RTOs (Regenerative Thermal Oxidizer) #1 and #2 associated with the Dryers, and the two inlet ducts and single exhaust duct associated with the Press RTO at the Kirby Forest Products facility located in Silsbee, TX on July 11 - 14, 1995.

The purpose of this test series was to determine the inlet and exhaust emission rates of PM, CO, Nox and VOC on all three RTOs, the exhaust emission rates of Formaldehyde from all three RTOs, and MDI (p,p-Diphenylmethane Diisocyanate) and phenol from the Press RTO exhaust.

Testing followed procedures detailed in Title 40: Code of Federal Regulations (40:CFR).

Sampling was performed by Joe Barrera, Steve Barrera, John Dahlem, Danny Barrera, Mark Peterson, Faith Tibbals, Cody Jefferson, Jerry Salinas and Tom Armstrong of Armstrong Environmental, Inc. using an 5 Apex Method 5 Sampling Trains, two NAPP Method 5 sampling trains, four FUJI continuous CO analyzers, four TECO Model 10 continuous Nox analyzers, five TECO Model 51 continuous FID analyzers, and one JUM Engineering continuous FID analyzer.

Testing was performed according to the following schedule:

Date	Locations	Parameters	Start Time	Finish Time
July 11	D1, D2, D3, D5, RTO 1&2	PM, CO, Nox	12:18pm	6:44pm
July 12	D1, D2, D3, D5, RTO 1&2	VOC, HCHO	10:00am	2:57pm
July 13	Press RTO inlets & exhaust	PM, CO, Nox MDI	9:52am	2:36pm
July 13	Press RTO inlets & exhaust	VOC, HCHO	3:40pm	4:42pm
July 14		Phenol	8:10am	1:42pm

Six one hour test repetitions were performed on the Dryers and RTO #1 and #2. Eight one hour test repetitions were performed on the Press RTO inlets and exhaust (two repetitions were repeated due to lower production during Runs #5 and #6).

Submitted by:
Armstrong Environmental, Inc.

Tom Armstrong/os

Tom Armstrong
President

II. SUMMARY

A series of tests were performed on the 3 RTOs at the Kirby Forest Products facility in Silsbee, TX July 11 - 14, 1995

Sampling was performed following procedures detailed in Title 40: Code of Federal Regulations.

Results of this test series are summarized in as follows:

Table#	Location	Parameters	Repetitions
1	RTO #1 Exhaust	PM, Nox, CO	1 - 3
2	RTO #2 Exhaust	PM, Nox, CO	1 - 3
3	Dryer #1 Exhaust	PM, Nox, CO	1 - 3
4	Dryer #2 Exhaust	PM, Nox, CO	1 - 3
5	Dryer #3 Exhaust	PM, Nox, CO	1 - 3
6	Dryer #5 Exhaust	PM, Nox, CO	1 - 3
7	RTO #1 Exhaust	VOC, HCHO	4 - 6
8	RTO #2 Exhaust	VOC, HCHO	4 - 6
9	Dryer #1 Exhaust	VOC	4 - 6
10	Dryer #2 Exhaust	VOC	4 - 6
11	Dryer #3 Exhaust	VOC	4 - 6
12	Dryer #5 Exhaust	VOC	4 - 6
13	Press RTO Ex.	PM, Nox, CO, MDI	1 - 3
14	Press RTO N. Inlet	PM, Nox, CO	1 - 3
15	Press RTO S. Inlet	PM, Nox, CO	1 - 3
16	Press RTO Ex.	VOC, HCHO, Phenol	4 - 8
17	Press RTO N. Inlet	VOC	4 - 8
18	Press RTO S. Inlet	VOC	4 - 8

Results indicate the following emission rates for the combined dryer exhausts and combined RTO #1 & #2 exhausts:

Location/Run #	1	2	3	Average
Dryer Exhausts (combined)				
Particulate, lbs/hr	132.1	96.17	96.48	108.25
Nox, lbs/hr	16.14	12.72	15.34	14.73
CO, lbs/hr	104.64	56.71	55.78	72.04
VOC, lbs/hr	198.02	168.83	158.73	175.19

RTOs #1 & #2 (combined)				
Particulate, lbs/hr	19.53	17.16	17.56	18.08
Nox, lbs/hr	32.46	32.93	34.0	33.13
CO, lbs/hr	229.72	143.33	130.58	167.88
VOC, lbs/hr	6.57	5.75	5.37	5.90
VOC DRE, %	96.68	96.59	96.62	96.63
Formaldehyde, lbs/hr	0.687	0.587	0.503	0.592

It should be noted that fuel gas injection was turned off on RTO #2 after the first repetition, resulting in diminishing CO concentrations throughout the day.

Results indicate the following emission rates for the combined Press RTO inlets and RTO exhaust:

Press RTO Inlets (combined)				
Particulate, lbs/hr	15.843	14.655	17.078	15.858
Nox, lbs/hr	0.355	0.475	.447	0.425
CO, lbs/hr	0.351	1.244	1.307	0.967
VOC, lbs/hr	63.182	59.631	52.622	58.478
Press RTO Exhaust				
Particulate, lbs/hr	7.153	4.844	5.077	5.691
Nox, lbs/hr	9.929	10.159	9.853	9.98
CO, lbs/hr	38.239	35.369	28.135	33.914
VOC, lbs/hr	3.21	3.64	3.40	3.41
VOC DRE, %	94.919	93.896	93.539	94.118
Formaldehyde, lbs/hr	0.347	0.484	0.409	0.413
MDI, lbs/hr	<0.017	<0.017	<0.017	<0.017
Phenol, lbs/hr	0.192	0.197	0.203	0.197

It should be noted that the above averages for VOC, formaldehyde and phenol are based on Repetitions #4, #7 and #8 only, when 7/16 inch board was in production. 1/4 inch board was run during Repetitions #5 and #6.

Based on the results of this test series, the following comments can be made:

1. Two blanks were taken at each location where formaldehyde was being run; one to determine background, the other spiked with 1.004 mg of formaldehyde. Non-spiked blanks showed no formaldehyde detected, spiked blanks yielded the following results:

Location	RTO #1	RTO #2	Press RTO
Spike Value, mg	1.015	1.015	0.9

Results indicate spikes within the +/- 20% given in Method 0011. Analytical results can be found in Appendix C.

2. A 45 cubic foot sample was not pulled on the formaldehyde samples, however, section 3.5.6.3.4 of Method 0011 gives this value as applicable to determining DRE of formaldehyde and not for determining mass emission rates. It should be noted that formaldehyde detected was well within the analytical capabilities of the HPLC analytical system and very close to the value of the spiked solution.

3. Sampling for Nox and CO on the Dryer exhausts was performed for a 30 minute period. Sampling on the related RTO exhausts was performed for 60 minute periods. Sampling on the Press RTO for Nox and CO was performed for 60 minute periods at all locations.

SUMMARY OF EMISSIONS TEST DATA

Table : 1
Plant : Kirby Forest Products, Silsbee, TX
Location : RTO #1 Exhaust
Operator : J. Salinas
Test Date : 11-Jul-95

Repetition :	1	2	3
STACK GAS			
Temperature, F	263.3	315.0	312.3
Velocity, fps	51.26	55.76	55.09
Volume Flow, acfm	138923.6	151120.1	149283.6
scfm	81500.8	81284.0	81562.4
scfh	4890047	4877039	4893745
Moisture, %	20.18%	21.59%	20.63%
CO2, %	1.50	2.00	2.50
O2, %	18.50	18.00	18.50
SAMPLE			
Start Time, hrs:min	12:18 PM	3:15 PM	5:42 PM
Finish Time, hrs:min	1:27 PM	4:17 PM	6:44 PM
Sample Volume, scf	37.937	39.173	39.072
Isokinetic Ratio, %	103.9346	107.6073	106.9644
PARTICULATE			
Front Half			
Sample Weight, mg	11.30	18.13	23.53
Concentration, gr/scf	0.004596	0.007141	0.009292
Emissions, lbs/hr	3.211733	4.977129	6.498368
Back Half			
Sample Weight, mg	16.46	17.85	14.83
Concentration, gr/scf	0.006695	0.007031	0.005857
Emissions, lbs/hr	4.678329	4.900262	4.095657
Total Particulate, gr/scf	0.011291	0.014172	0.015149
Total Particulate, lbs/hr	7.890061	9.87739	10.59402
CARBON MONOXIDE			
Concentration, ppm	190.6	186.8	214.9
Emissions, lbs/hr	67.74975	66.22239	76.44507
NITROGEN OXIDE AS NO2			
Concentration, ppm	33.7	31.2	31.9
Emissions, lbs/hr	19.67952	18.17115	18.64247

SUMMARY OF EMISSIONS TEST DATA

Table : 2
Plant : Kirby Forest Products, Silsbee, TX
Location : RTO #2 Exhaust
Operator : J. Dahlem
Test Date : 11-Jul-95

Repetition :	1	2	3
STACK GAS			
Temperature, F	316.6	320.0	318.0
Velocity, fps	51.51	52.19	52.02
Volume Flow, acfm	139598.1	141444.6	140982.4
scfm	74619.6	75717.0	76294.9
scfh	4477173	4543017	4577692
Moisture, %	21.92%	21.46%	20.80%
CO2, %	2.00	2.00	2.00
O2, %	18.00	18.00	18.00
SAMPLE			
Start Time, hrs:min	12:18 PM	3:15 PM	5:42 PM
Finish Time, hrs:min	1:23 PM	4:17 PM	6:47 PM
Sample Volume, scf	32.437	32.843	32.522
Isokinetic Ratio, %	97.37556	97.16409	95.48535
PARTICULATE			
Front Half			
Sample Weight, mg	24.20	17.90	17.10
Concentration, gr/scf	0.011512	0.00841	0.008113
Emissions, lbs/hr	7.365233	5.459689	5.307369
Back Half			
Sample Weight, mg	14.06	5.98	5.35
Concentration, gr/scf	0.006688	0.002809	0.002538
Emissions, lbs/hr	4.27914	1.823963	1.660493
Total Particulate, gr/scf	0.0182	0.011219	0.010651
Total Particulate, lbs/hr	11.64437	7.283652	6.967862
CARBON MONOXIDE			
Concentration, ppm	497.7	233.5	162.7
Emissions, lbs/hr	161.9732	77.10864	54.13846
NITROGEN OXIDE AS NO2			
Concentration, ppm	23.9	27.2	28.1
Emissions, lbs/hr	12.77831	14.75655	15.36118

SUMMARY OF EMISSIONS TEST DATA

Table : 3
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #1 Exhaust
Operator : M. Peterson
Test Date : 11-Jul-95

Repetition :	1	2	3
STACK GAS			
Temperature, F	190.9	195.1	196.9
Velocity, fps	81.62	81.66	81.59
Volume Flow, acfm	47115.8	47140.8	47101.1
scfm	28689.0	29629.3	28509.3
scfh	1721339	1777758	1710555
Moisture, %	23.23%	20.25%	22.99%
CO2, %	1.50	2.00	1.00
O2, %	19.00	19.00	19.00
SAMPLE			
Start Time, hrs:min	12:15 PM	3:10 PM	5:36 PM
Finish Time, hrs:min	1:18 PM	4:18 PM	6:39 PM
Sample Volume, scf	35.012	34.991	34.602
Isokinetic Ratio, %	106.0483	102.6183	105.4666
PARTICULATE			
Front Half			
Sample Weight, mg	325.94	219.19	255.69
Concentration, gr/scf	0.143642	0.096657	0.114018
Emissions, lbs/hr	35.33376	24.5555	27.87112
Back Half			
Sample Weight, mg	42.74	23.40	28.64
Concentration, gr/scf	0.018836	0.010319	0.012771
Emissions, lbs/hr	4.63326	2.621464	3.121862
Total Particulate, gr/scf	0.162477	0.106976	0.12679
Total Particulate, lbs/hr	39.96702	27.17696	30.99299
CARBON MONOXIDE			
Concentration, ppm	402.4	83.62	78.04
Emissions, lbs/hr	50.34963	10.80574	9.703448
NITROGEN OXIDE AS NO2			
Concentration, ppm	30.9	18.88	22.47
Emissions, lbs/hr	6.351796	4.00817	4.58999

SUMMARY OF EMISSIONS TEST DATA

Table : 4
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #2 Exhaust
Operator : C. Jefferson
Test Date : 11-Jul-95

Repetition :	1	2	3
STACK GAS			
Temperature, F	149.3	151.8	152.5
Velocity, fps	76.49	76.77	76.90
Volume Flow, acfm	44155.1	44317.3	44390.9
scfm	28266.2	27998.7	28094.5
scfh	1695971	1679924	1685668
Moisture, %	24.45%	25.13%	24.91%
CO2, %	4.00	3.50	2.50
O2, %	17.00	17.00	17.00
SAMPLE			
Start Time, hrs:min	12:12 PM	3:13 PM	5:42 PM
Finish Time, hrs:min	1:14 PM	4:17 PM	6:45 PM
Sample Volume, scf	34.989	34.721	35.464
Isokinetic Ratio, %	105.6019	105.796	107.6896
PARTICULATE			
Front Half			
Sample Weight, mg	275.43	153.94	174.04
Concentration, gr/scf	0.121464	0.06841	0.075723
Emissions, lbs/hr	29.43803	16.42298	18.24084
Back Half			
Sample Weight, mg	29.96	35.36	23.74
Concentration, gr/scf	0.013212	0.015714	0.010329
Emissions, lbs/hr	3.202133	3.772356	2.48815
Total Particulate, gr/scf	0.134676	0.084124	0.086053
Total Particulate, lbs/hr	32.64016	20.19533	20.72899
CARBON MONOXIDE			
Concentration, ppm	144.6	79.35	86.77
Emissions, lbs/hr	17.82619	9.689653	10.63196
NITROGEN OXIDE AS NO2			
Concentration, ppm	16.73	17.49	17.28
Emissions, lbs/hr	3.388331	3.508738	3.478463

SUMMARY OF EMISSIONS TEST DATA

Table : 5
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #3 Exhaust
Operator : F. Tibbals, S. Barrera
Test Date : 11-Jul-95

Repetition :	1	2	3
STACK GAS			
Temperature, F	171.7	173.9	182.8
Velocity, fps	76.11	76.93	77.36
Volume Flow, acfm	43937.3	44409.2	44657.8
scfm	28189.9	28009.9	28417.4
scfh	1691392	1680597	1705046
Moisture, %	21.89%	22.84%	21.16%
CO2, %	4.00	1.50	3.00
O2, %	18.00	18.50	18.00
SAMPLE			
Start Time, hrs:min	12:21 PM	3:13 PM	5:42 PM
Finish Time, hrs:min	1:23 PM	4:20 PM	6:43 PM
Sample Volume, scf	32.769	35.311	34.689
Isokinetic Ratio, %	97.79409	106.0582	102.6957
PARTICULATE			
Front Half			
Sample Weight, mg	345.22	252.24	238.35
Concentration, gr/scf	0.162556	0.110223	0.106021
Emissions, lbs/hr	39.29076	26.47146	25.83267
Back Half			
Sample Weight, mg	42.89	22.34	19.10
Concentration, gr/scf	0.020196	0.009762	0.008496
Emissions, lbs/hr	4.881469	2.344483	2.070082
Total Particulate, gr/scf	0.182752	0.119985	0.114517
Total Particulate, lbs/hr	44.17223	28.81594	27.90275
CARBON MONOXIDE			
Concentration, ppm	214.9	221.1	205.3
Emissions, lbs/hr	26.42119	27.00997	25.44466
NITROGEN OXIDE AS NO2			
Concentration, ppm	10.69	9.05	19.92
Emissions, lbs/hr	2.159203	1.816284	4.05599

SUMMARY OF EMISSIONS TEST DATA

Table : 6
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #5 Exhaust
Operator : D. Barrera
Test Date : 11-Jul-95

Repetition :	1	2	3
STACK GAS			
Temperature, F	167.7	180.6	179.1
Velocity, fps	71.18	74.28	72.96
Volume Flow, acfm	41087.8	42880.0	42117.8
scfm	25298.2	26074.0	26435.6
scfh	1517895	1564438	1586133
Moisture, %	25.14%	24.55%	22.30%
CO2, %	4.00	3.50	4.00
O2, %	17.00	17.50	18.00
SAMPLE			
Start Time, hrs:min	12:20 PM	3:20 PM	5:41 PM
Finish Time, hrs:min	1:38 PM	4:25 PM	6:45 PM
Sample Volume, scf	31.240	31.870	31.652
Isokinetic Ratio, %	103.8898	102.8325	100.7294
PARTICULATE			
Front Half			
Sample Weight, mg	138.31	173.83	145.33
Concentration, gr/scf	0.068314	0.08416	0.070847
Emissions, lbs/hr	14.81806	18.815	16.05856
Back Half			
Sample Weight, mg	4.67	10.74	7.20
Concentration, gr/scf	0.002307	0.0052	0.00351
Emissions, lbs/hr	0.500328	1.162475	0.79558
Total Particulate, gr/scf	0.07062	0.089359	0.074357
Total Particulate, lbs/hr	15.31838	19.97747	16.85414
CARBON MONOXIDE			
Concentration, ppm	90.98	80.93	86.76
Emissions, lbs/hr	10.03828	9.203215	10.00302
NITROGEN OXIDE AS NO2			
Concentration, ppm	23.41	18.15	16.98
Emissions, lbs/hr	4.243407	3.390833	3.216244

SUMMARY OF EMISSIONS TEST DATA

Table : 7
Plant : Kirby Forest Products, Silsbee, TX
Location : RTO #1 Exhaust
Operator : J. Salinas
Test Date : 12-Jul-95

Repetition :	4	5	6
STACK GAS			
Temperature, F	313.0	312.9	313.0
Velocity, fps	54.06	53.88	53.65
Volume Flow, acfm	146507.0	146023.3	145379.1
scfm	78950.8	78810.3	77479.4
scfh	4737046	4728619	4648762
Moisture, %	21.92%	21.53%	22.51%
CO2, %	2.50	2.50	2.50
O2, %	18.00	18.00	18.50
SAMPLE			
Start Time, hrs:min	10:00 AM	12:03 PM	1:55 PM
Finish Time, hrs:min	11:03 AM	1:04 PM	2:57 PM
Sample Volume, scf	39.687	38.797	37.859
Isokinetic Ratio, %	104.8646	102.6962	101.9336
FORMALDEHYDE			
Sample Weight, mg	1.181	1.632	1.181
Concentration, ppm	0.841654	1.189737	0.882299
Emissions, lbs/hr	0.310821	0.438586	0.319759
VOC as C			
Concentration as C3H8, ppm WB	4.7	5.28	5.3
Concentration as C, ppm WB	14.1	15.84	15.9
Concentration as C, ppm DB	18.05833	20.18699	20.5199
Emissions, lbs/hr	2.664895	2.973726	2.971717

SUMMARY OF EMISSIONS TEST DATA

Table : 8
Plant : Kirby Forest Products, Silsbee, TX
Location : RTO #2 Exhaust
Operator : J. Dahlem
Test Date : 12-Jul-95

Repetition :	4	5	6
STACK GAS			
Temperature, F	320.3	320.5	320.8
Velocity, fps	51.54	52.61	53.27
Volume Flow, acfm	139670.2	142558.5	144350.9
scfm	74117.9	79518.6	80067.7
scfh	4447073	4771113	4804061
Moisture, %	22.37%	18.12%	18.54%
CO2, %	1.50	1.50	1.00
O2, %	18.50	18.50	19.00
SAMPLE			
Start Time, hrs:min	10:00 AM	12:03 PM	1:55 PM
Finish Time, hrs:min	11:03 AM	1:04 PM	2:57 PM
Sample Volume, scf	35.540	35.783	35.524
Isokinetic Ratio, %	106.8096	100.2355	98.82697
FORMALDEHYDE			
Sample Weight, mg	1.361	0.502	0.615
Concentration, ppm	1.083116	0.396789	0.489653
Emissions, lbs/hr	0.375507	0.147587	0.183386
VOC as C			
Concentration as C3H8, ppm WB	7.29	5.09	4.35
Concentration as C, ppm WB	21.87	15.27	13.05
Concentration as C, ppm DB	28.17282	18.64856	16.02069
Emissions, lbs/hr	3.903009	2.771788	2.397644

SUMMARY OF EMISSIONS TEST DATA

Table : 9
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #1 Exhaust
Operator : M. Peterson
Test Date : 12-Jul-95

Repetition :	4	5	6
STACK GAS			
Temperature, F	170.3	176.0	178.0
Velocity, fps	83.19	83.22	86.94
Volume Flow, acfm	48025.4	48041.8	50185.1
scfm	29327.8	29370.0	30369.7
scfh	1759667	1762199	1822183
Moisture, %	25.79%	24.69%	25.31%
CO2, %	1.00	2.00	2.00
O2, %	19.50	19.00	19.00
SAMPLE			
Start Time, hrs:min	10:07 AM	11:50 AM	1:50 AM
Finish Time, hrs:min	11:07 AM	12:59 PM	2:50 AM
Sample Volume, scf	30.116	33.489	26.534
VOC as C			
Concentration as C3H8, ppm WB	256.3	235.8	234.5
Concentration as C, ppm WB	768.9	707.4	703.5
Concentration as C, ppm DB	1036.05	939.2636	941.8611
Emissions, lbs/hr	56.79447	51.56292	53.46552

SUMMARY OF EMISSIONS TEST DATA

Table : 10
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #2 Exhaust
Operator : S. Barrera
Test Date : 12-Jul-95

Repetition :	4	5	6
STACK GAS			
Temperature, F	157.2	176.3	178.9
Velocity, fps	81.92	84.95	87.56
Volume Flow, acfm	47290.9	49036.8	50543.4
scfm	30899.9	31936.4	29987.0
scfh	1853991	1916183	1799223
Moisture, %	22.15%	19.72%	26.67%
CO2, %	2.50	2.50	2.50
O2, %	18.00	17.50	18.00
SAMPLE			
Start Time, hrs:min	10:00 AM	12:00 PM	1:50 PM
Finish Time, hrs:min	11:00 AM	1:00 PM	2:50 PM
Sample Volume, scf	32.517	22.126	12.401
VOC as C			
Concentration as C3H8, ppm WB	325.8	228.9	233.8
Concentration as C, ppm WB	977.4	686.7	701.4
Concentration as C, ppm DB	1255.558	855.4262	956.4489
Emissions, lbs/hr	72.51696	51.06395	53.6095

SUMMARY OF EMISSIONS TEST DATA

Table : 11
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #3 Exhaust
Operator : F. Tibbals
Test Date : 12-Jul-95

Repetition :	4	5	6
STACK GAS			
Temperature, F	179.3	177.3	176.3
Velocity, fps	81.28	81.91	81.15
Volume Flow, acfm	46917.5	47283.1	46842.9
scfm	28074.0	28021.6	29036.6
scfh	1684439	1681299	1742194
Moisture, %	26.07%	26.89%	23.59%
CO2, %	3.00	2.00	3.00
O2, %	17.00	17.50	17.00
SAMPLE			
Start Time, hrs:min	10:00 AM	12:03 PM	1:55 PM
Finish Time, hrs:min	11:03 AM	1:04 PM	2:57 PM
Sample Volume, scf	30.733	32.298	33.472
VOC as C			
Concentration as C3H8, ppm WB	190	168.8	125.9
Concentration as C, ppm WB	570	506.4	377.7
Concentration as C, ppm DB	770.9677	692.6762	494.3388
Emissions, lbs/hr	40.45633	36.28024	26.82972

SUMMARY OF EMISSIONS TEST DATA

Table : 12
Plant : Kirby Forest Products, Silsbee, TX
Location : Dryer #5 Exhaust
Operator : D. Barrera
Test Date : 12-Jul-95

Repetition :	4	5	6
STACK GAS			
Temperature, F	179.7	177.7	182.3
Velocity, fps	80.25	81.27	82.16
Volume Flow, acfm	46325.5	46913.1	47430.9
scfm	29889.3	29441.4	29264.4
scfh	1793358	1766485	1755866
Moisture, %	20.33%	22.48%	23.14%
CO2, %	2.00	2.50	2.00
O2, %	19.00	18.50	19.00
SAMPLE			
Start Time, hrs:min	10:07 AM	12:00 PM	1:50 PM
Finish Time, hrs:min	11:07 AM	1:00 PM	2:50 PM
Sample Volume, scf	27.930	29.016	29.414
VOC as C			
Concentration as C3H8, ppm WB	134.3	140.5	116.3
Concentration as C, ppm WB	402.9	421.5	348.9
Concentration as C, ppm DB	505.7005	543.7551	453.9202
Emissions, lbs/hr	28.2524	29.92321	24.82938

SUMMARY OF EMISSIONS TEST DATA

Table : 13
Plant : Kirby Forest Products, Silsbee, TX
Location : Press RTO Exhaust
Operator : J. Dahlem, J. Salinas
Test Date : 13-Jul-95

Repetition :	1	2	3	
STACK GAS				
Temperature, F	293.7	308.0	297.9	- 300°
Velocity, fps	52.11	52.43	47.91	
Volume Flow, acfm	139666.0	140525.0	128402.5	
scfm	94276.1	92366.7	85783.7	— 90,309
scfh	5656564	5542003	5147023	
Moisture, %	4.30%	5.06%	4.80%	— [illegible]
CO2, %	2.00	2.00	2.00	
O2, %	18.00	18.00	19.00	
SAMPLE				
Start Time, hrs:min	9:52 AM	11:45 AM	1:35 PM	
Finish Time, hrs:min	10:54 AM	12:47 PM	2:36 PM	
Sample Volume, scf	41.338	39.070	35.074	
Isokinetic Ratio, %	96.59681	93.18339	90.07199	
PARTICULATE				
Front Half				
Sample Weight, mg	10.33	7.39	12.80	
Concentration, gr/scf	0.003856	0.002919	0.005631	- 0.004.353
Emissions, lbs/hr	3.116805	2.31142	4.141835	- 3.19002
Back Half				
Sample Weight, mg	13.38	8.10	2.89	
Concentration, gr/scf	0.004994	0.003199	0.001271	- 0.003/546
Emissions, lbs/hr	4.037062	2.533491	0.935149	- 2.501900
Total Particulate, gr/scf	0.00885	0.006118	0.006903	
Total Particulate, lbs/hr	7.153867	4.844911	5.076984	
CARBON MONOXIDE				
Concentration, ppm	93	87.8	75.2	85.3
Emissions, lbs/hr	38.23907	35.36983	28.13492	33.91
NITROGEN OXIDE AS NO2				
Concentration, ppm	14.7	15.35	16.03	[illegible]
Emissions, lbs/hr	9.929824	10.1589	9.852834	9.98
MDI (p,p-Diphenylmethane Diisocyanate)				
Sample Volume, scf	34.819	34.178	34.189	
Sample Weight, mg	< 0.05	< 0.05	< 0.05	
Concentration, ppm	< 0.004879	< 0.00497	< 0.004969	
Emissions, lbs/hr	< 0.017911	< 0.017877	< 0.016598	

SUMMARY OF EMISSIONS TEST DATA

Table : 14
Plant : Kirby Forest Products, Silsbee, TX
Location : Press RTO North Inlet
Operator : C. Jefferson
Test Date : 13-Jul-95

Repetition :	1	2	3	
STACK GAS				
Temperature, F	140.2	142.9	146.1	- 143
Velocity, fps	66.28	66.33	67.08	
Volume Flow, acfm	52907.4	52945.9	53545.7	
scfm	44950.9	44779.0	44957.2	- 44,896
scfh	2697054	2686743	2697431	
Moisture, %	3.74%	3.74%	3.92%	- 3.8
CO2, %	0.00	0.00	0.00	
O2, %	21.00	21.00	21.00	
SAMPLE				
Start Time, hrs:min	9:55 AM	11:45 AM	1:34 PM	
Finish Time, hrs:min	11:02 AM	12:50 PM	2:40 PM	
Sample Volume, scf	38.302	37.881	37.633	
Isokinetic Ratio, %	102.3799	101.6424	100.5767	
PARTICULATE				
Front Half				
Sample Weight, mg	32.76	53.21	27.84	
Concentration, gr/scf	0.013197	0.021674	0.011415	- 0.015
Emissions, lbs/hr	5.086459	8.321558	4.400059	- 5.936
Back Half				
Sample Weight, mg	27.21	12.54	31.37	
Concentration, gr/scf	0.010961	0.005108	0.012862	- 0.0096
Emissions, lbs/hr	4.224742	1.961142	4.957969	- 3.715
Total Particulate, gr/scf	0.024159	0.026782	0.024277	
Total Particulate, lbs/hr	9.3112	10.2827	9.358028	
CARBON MONOXIDE				
Concentration, ppm	1.79	6.37	6.67	- 4.94
Emissions, lbs/hr	0.350925	1.244048	1.30782	- 0.968
NITROGEN OXIDE AS NO2				
Concentration, ppm	0.63	0.48	0.44	0.52
Emissions, lbs/hr	0.202909	0.154006	0.141734	0.166

SUMMARY OF EMISSIONS TEST DATA

Table : 15
Plant : Kirby Forest Products, Silsbee, TX
Location : Press RTO South Inlet
Operator : D. Barrera
Test Date : 13-Jul-95

Repetition :	1	2	3	
STACK GAS				
Temperature, F	126.7	127.5	127.8	- 127
Velocity, fps	70.51	68.00	72.11	
Volume Flow, acfm	56280.6	54279.5	57562.9	
scfm	49492.1	47761.0	50175.5	– 49,143
scfh	2969526	2865658	3010530	
Moisture, %	2.54%	2.37%	3.19%	~ 2.7
CO2, %	0.00	0.00	0.00	
O2, %	21.00	21.00	21.00	
SAMPLE				
Start Time, hrs:min	9:55 AM	11:45 AM	1:24 PM	
Finish Time, hrs:min	11:02 AM	12:51 PM	2:45 PM	
Sample Volume, scf	41.443	37.439	39.448	
Isokinetic Ratio, %	106.5468	99.74133	100.0361	
PARTICULATE				
Front Half				
Sample Weight, mg	27.00	16.49	25.05	
Concentration, gr/scf	0.010053	0.006796	0.009798	– 0.00888
Emissions, lbs/hr	4.265886	2.783115	4.215387	~ 3.755
Back Half				
Sample Weight, mg	14.34	5.40	20.83	
Concentration, gr/scf	0.005339	0.002226	0.008148	- 0.0052
Emissions, lbs/hr	2.26566	0.91139	3.50525	-3.227
Total Particulate, gr/scf	0.015392	0.009022	0.017946	
Total Particulate, lbs/hr	6.531546	3.694504	7.720638	
CARBON MONOXIDE				
Concentration, ppm	0	0	0	
Emissions, lbs/hr	0	0	0	
NITROGEN OXIDE AS NO2				
Concentration, ppm	0.43	0.94	0.85	0.74
Emissions, lbs/hr	0.152485	0.32168	0.305586	0.26

SUMMARY OF EMISSIONS TEST DATA

Table : 16
Plant : Kirby Forest Products, Silsbee, TX
Location : Press RTO Exhaust
Operator : J. Dahlem, J. Salinas

Test Date :	7/13/95	7/14/95	7/14/95	7/14/95	7/14/95
Repetition :	4	5	6	7	8
STACK GAS					
Temperature, F	294.4	296.6	297.6	295.2	299.9 - 297
Velocity, fps	47.72	49.01	47.50	47.68	47.78
Volume Flow, acfm	127892.8	131371.7	127325.4	127802.9	128074.8
scfm	85668.9	88053.6	84986.9	84084.3	85243.4 - 85,607
scfh	5140133	5283216	5099215	5045060	5114605
Moisture, %	4.95%	4.63%	4.91%	6.55%	4.87% - 5.2
CO2, %	2.00	1.00	1.00	1.00	2.00
O2, %	18.50	20.00	20.00	20.00	19.00
SAMPLE					
Start Time, hrs:min	3:40 PM	8:10 AM	9:37 AM	11:00 AM	12:40 PM
Finish Time, hrs:min	4:42 PM	9:12 AM	10:39 AM	12:02 PM	1:42 PM
Sample Volume, scf	35.818	37.340	35.749	35.735	35.699
Isokinetic Ratio, %	93.37799	94.70753	93.94457	94.91741	93.53289
FORMALDEHYDE					
Sample Weight, mg	1.099	1.294	1.418	1.556	1.297
Concentration, ppm	0.867815	0.980165	1.121888	1.231537	1.027571 - 1.0458
Emissions, lbs/hr	0.347753	0.403707	0.445987	0.484376	0.409725 - 0.4182
VOC as C					
Concentration as C3H8, ppm WB	6.36	6.78	6.68	7.23	6.78
Concentration as C, ppm WB	19.08	20.34	20.04	21.69	20.34
Concentration as C, ppm DB	20.07292	21.32716	21.07435	23.20992	21.38055 - 21.[illegible]
Emissions, lbs/hr	3.214251	3.510155	3.347746	3.647832	3.406638 - 3.42[illegible]
PHENOL					
Sample Volume, scf	34.764	34.746	34.73	33.742	34.981
Sample Weight, mg	0.59	0.51	0.31	0.6	0.63
Concentration, ppm	0.153173	0.132472	0.080559	0.160487	0.061188 - 0.11757
Emissions, lbs/hr	0.192356	0.170991	0.100362	0.197813	0.203109 0.1729

SUMMARY OF EMISSIONS TEST DATA

Table : 17
Plant : Kirby Forest Products, Silsbee, TX
Location : Press RTO North Inlet
Operator : J. Barrera

Test Date :	7/13/95	7/14/95	7/14/95	7/14/95	7/14/95
Repetition :	4	5	6	7	8
STACK GAS					
Temperature, F	136.4	135.5	137.5	140.8	143.1
Velocity, fps	73.62	63.92	65.22	65.21	65.64
Volume Flow, acfm	58767.4	51026.2	52058.4	52055.4	52394.3
scfm	48964.9	43102.7	43766.5	43725.4	44038.3
scfh	2937896	2586163	2625992	2623527	2642296
Moisture, %	6.15%	4.97%	5.08%	4.56%	4.22%
CO2, %	0.00	0.00	0.00	0.00	0.00
O2, %	21.00	21.00	21.00	21.00	21.00
SAMPLE					
Start Time, hrs:min	3:40 PM	8:10 AM	9:36 AM	11:00 AM	12:39 PM
Finish Time, hrs:min	4:40 PM	9:10 AM	10:36 AM	12:00 PM	1:39 PM
Sample Volume, scf	34.127	33.632	33.225	33.025	33.339
VOC as C					
Concentration as C3H8, ppm WB	142.4	127.4	99.92	129.6	135.6
Concentration as C, ppm WB	427.2	382.2	299.76	388.8	406.8
Concentration as C, ppm DB	455.1878	402.2059	315.8123	407.3639	424.7196
Emissions, lbs/hr	41.66026	32.40406	25.83554	33.29378	34.96059

SUMMARY OF EMISSIONS TEST DATA

Table : 18
Plant : Kirby Forest Products, Silsbee, TX
Location : Press RTO South Inlet
Operator : D. Barrera

Test Date :	7/13/95	7/14/95	7/14/95	7/14/95	7/14/95
Repetition :	4	5	6	7	8
STACK GAS					
Temperature, F	129.0	128.0	126.8	127.2	128.4
Velocity, fps	72.55	71.33	69.92	69.67	69.42
Volume Flow, acfm	57910.0	56933.7	55812.0	55613.1	55416.8
scfm	50787.2	48839.1	48209.3	48062.4	47522.5
scfh	3047229	2930344	2892559	2883742	2851351
Moisture, %	2.86%	4.60%	4.20%	4.19%	4.65%
CO2, %	0.00	0.00	0.00	0.00	0.00
O2, %	21.00	21.00	21.00	21.00	21.00
SAMPLE					
Start Time, hrs:min	3:40 PM	8:10 AM	9:36 AM	11:00 AM	12:39 PM
Finish Time, hrs:min	4:40 PM	9:10 AM	10:36 AM	12:00 PM	1:39 PM
Sample Volume, scf	33.844	29.123	29.119	31.023	28.538
VOC as C					
Concentration as C3H8, ppm WB	73.41	73.79	59.06	93.63	63.19
Concentration as C, ppm WB	220.23	221.37	177.18	280.89	189.57
Concentration as C, ppm DB	226.7234	232.032	184.9416	293.1641	198.825
Emissions, lbs/hr	21.52268	21.18173	16.66525	26.33675	17.66106

III. PROCEDURES

The procedure for emissions sampling followed USEPA test methods as detailed in Title 40: Code of Federal Regulations. The following methods were used:

Method	Title
1	Sample and Velocity Traverses for Stationary Sources
2	Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
3	Gas Analysis for CO2, O2, Excess Air and Dry Molecular Weight
4	Determination of Moisture Content in Stack Gases
5	Determination of Particulate Emissions from Stationary Sources
7E	Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)
10	Determination of Carbon Monoxide Emission from Stationary Sources
25A	Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
0011	Sampling for Aldehyde and Ketone Emissions from Stationary Sources

O2 and CO2 were determined using Fyrite Analyzers.

Sampling was performed on the four dryer exhausts using the following test matrix:

Dryer #	1	2	3	5
Sample Train	Napp	Apex	Apex	Apex
Sample Points	24	24	24	24
Duration, minutes	60	60	60	60
Minutes/point	2.5	2.5	2.5	2.5
Nozzle Size, inches	0.184	0.1857	0.187	0.187
Nozzle Material	Stainless	Stainless	Stainless	Stainless
Probe Liner	Stainless	Stainless	Stainless	Stainless
Impinger Solution	H2O	H2O	H2O	H2O

This matrix was used for both PM and moisture sampling, however, non-isokintic sampling was performed on the moisture runs, with approximately 0.5 inch nozzles on the sampling probe.

Sampling was performed on RTO #1 and #2 exhausts using the following test matrix:

RTO #	1	2
Particulate		
Sample Train	Apex	Apex
Sample Points	24	24
Duration, minutes	60	60
Minutes/point	2.5	2.5
Nozzle Size, inches	0.2487	0.2483
Nozzle Material	Stainless	Stainless
Probe Liner	Teflon	Teflon
Impinger Solution	H2O	H2O

Sampling for formaldehyde was performed the same as above with the following exceptions:

Nozzle Size, inches	0.2573	0.249
Nozzle Material	Glass	Glass
Probe Liner	Teflon	Teflon
Impinger Solution	DNPH	DNPH

Sampling was performed on the press RTO inlets and exhaust using the following matrix:

Location #	North Inlet	South Inlet	Exhaust
Particulate			
Sample Train	Apex	Apex	Apex
Sample Points	24	24	24
Duration, minutes	60	60	60
Minutes/point	2.5	2.5	2.5
Nozzle Size, inches	0.184	0.1788	0.249
Nozzle Material	Stainless	Stainless	Stainless
Probe Liner	Stainless	Stainless	Teflon
Impinger Solution	H2O	H2O	H2O

Sampling for formaldehyde was performed the same as above with the following exceptions:

Nozzle Size, inches	0.2473
Nozzle Material	Glass
Probe Liner	Teflon
Impinger Solution	DNPH

CEM data was taken using heated teflon sample lines and manifolds. The following matrix was used:

Locations	Inlets	Exhausts
CO Analyzer	Fuji NDIR	Fuji NDIR
CO Standards, ppm in N2	400	391
(Certified +/- 2%)	98	250
	56.7	98
Nox Analyzer	Teco 10	Teco 10
Nox Standards, NO in N2, ppm	50.8	95.2
(EPA Protocol 1)	32.2	29.7
VOC analyzer (FID)	Teco 51	Teco 51
VOC Standards, C3H8 in N2, ppm	909	91
(EPA Protocol 1)	495	50.5
	249.7	31.9

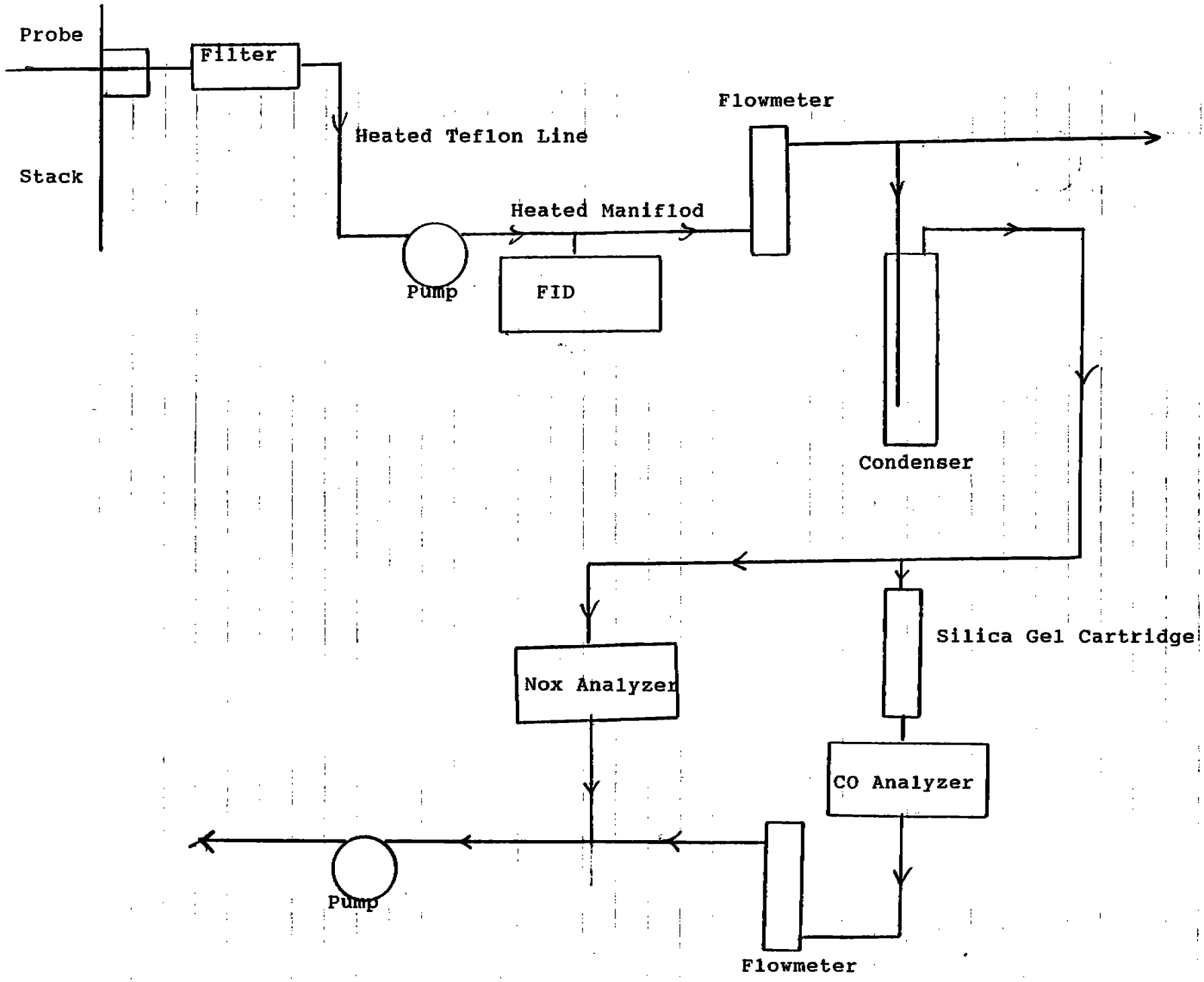
VOC calibration gas propane

Standards were introduced to the analyzers at the sample probe via tedlar gas bags. This enabled several analyzers to be calibrated using the same standards, filling a bag in on truck and walking it to the next. Three CEM trailers were used; the exhaust trailer contained 2 sets of CO, Nox and VOC analyzers, the inlet trailers contained 1 set of CO and Nox analyzers, and 1 set of two VOC analyzers.

All analyzers were zeroed with N2. A schematic of CEM flow is included.

MDI was determined following procedures given in NIOSH Manual of Analytical Methods *P&CAM 142 - p,p-Diphenylmethane Diisocyante (MDI) in Air* and in TNRCC *Sampling Procedures Manual.* Sample train consisted of a heated teflon lined probe followed by 2 impingers each containing 200 mls each of HCL/Acetic Acid solution, an empty impinger, then 200 grms of silica gel. Analysis was performed by spectophotometric (colorimetric) as detailed in the method. Sampling was performed for one hour at a constant rate. The probe was washed with H2O and added to the impinger solutions.

Phenol was determined following procedures given in NIOSH Manual of Analytical Methods *Method S330 - Phenol in Air* and in TNRCC *Sampling Procedures Manual.* Sample train consisted of a heated teflon lined sample probe followed by 2 impingers containing 200 mls each of 0.1 N NaOH, followed by an empty impinger and 200 grms of silica gel. Sampling was performed for one hour at a constsnt rate. Analysis was performed by HPLC analytical methods. The probe was washed with H2O and added to the impinger solutions.


Probe
Stack
Filter
Heated Teflon Line
Pump
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FID
Flowmeter
Condenser
Silica Gel Cartridge
CO Analyzer
Flowmeter
Nox Analyzer
Pump

APPENDIX A

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : RTO #1 Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	203.8
NOZZLE DIAMETER (INCH.) :	0.2487	PARTICULATE WEIGHT (Front half mg)	11.3
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	16.46
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.32
GAS METER VOL.(Cu.Ft.) :	38.468	PERCENT CO2 :	1.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000337	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	37.9368
VOLUME OF WATER VAPOR (STD. CU.FT.):	9.5929
FRACTIONAL MOISTURE CONTENT (%):	0.2018
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.7639
STACK PRESSURE (inch Hg):	30.1235
STACK GAS VELOCITY (ft/sec.):	51.2643
ACTUAL STACK GAS FLOW RATE (ACFM):	138923.622
STANDARD STACK GAS FLOW RATE (SCFH):	4890046.94

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0046
PARTICULATE CONCENTRATION (LBS/SCF):	6.57E-07
PARTICULATE EMISSION (LBS/HR):	3.2117

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0067
PARTICULATE CONCENTRATION (LBS/SCF):	9.57E-07
PARTICULATE EMISSION (LBS/HR):	4.6783
ISOKINETIC RATIO (%):	103.9346

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	265	0.42	0.648074	0.86	89	88	
2	273	0.38	0.616441	0.78	90	88	
3	255	0.57	0.754983	1.10	92	88	
4	248	0.55	0.74162	1.10	92	89	
5	244	0.61	0.781025	1.20	93	89	
6	238	0.57	0.754983	1.10	94	89	
7	227	0.75	0.866025	1.50	94	90	
8	253	0.60	0.774597	1.20	95	90	
9	248	0.55	0.74162	1.10	95	90	
10	276	0.76	0.87178	1.50	96	91	
11	272	0.80	0.894427	1.60	96	91	
12	268	0.70	0.83666	1.40	97	91	
13	239	0.35	0.591608	0.71	93	92	
14	281	0.32	0.565685	0.65	94	92	
15	260	0.39	0.6245	0.80	95	92	
16	251	0.34	0.583095	0.69	97	92	
17	259	0.32	0.565685	0.65	97	92	
18	268	0.39	0.6245	0.80	98	92	
19	270	0.72	0.848528	1.40	98	93	
20	293	0.82	0.905539	1.60	100	93	
21	300	0.85	0.921954	1.70	100	94	
22	319	0.92	0.959166	1.90	101	94	
23	276	0.84	0.916515	1.70	102	95	METER T.
24	235	0.49	0.7	1.00	102	95	AVERAGE
	263.25		0.7537	1.1683	95.8333	91.2500	93.5417

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : RTO #1 Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	229.2
NOZZLE DIAMETER (INCH.) :	0.2487	PARTICULATE WEIGHT (Front half mg)	18.13
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	17.85
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	0.35
GAS METER VOL.(Cu.Ft.) :	40.345	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(Inches) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(Inches) :	
NOZZLE AREA (feet):	0.000337	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	39.1727
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.7884
FRACTIONAL MOISTURE CONTENT (%):	0.2159
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6561
STACK PRESSURE (inch Hg):	30.1257
STACK GAS VELOCITY (ft/sec.):	55.7649
ACTUAL STACK GAS FLOW RATE (ACFM):	151120.07
STANDARD STACK GAS FLOW RATE (SCFH):	4877038.9

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0071
PARTICULATE CONCENTRATION (LBS/SCF):	1.02E-06
PARTICULATE EMISSION (LBS/HR):	4.9771

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0070
PARTICULATE CONCENTRATION (LBS/SCF):	1.00E-06
PARTICULATE EMISSION (LBS/HR):	4.9003
ISOKINETIC RATIO (%):	107.6073

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	314	0.53	0.728011	1.00	99	98	
2	309	0.44	0.663325	0.90	100	100	
3	326	0.61	0.781025	1.20	101	100	
4	302	0.59	0.768115	1.20	102	100	
5	311	0.62	0.787401	1.20	102	100	
6	306	0.71	0.842615	1.40	102	100	
7	319	0.57	0.754983	1.10	103	100	
8	312	0.55	0.74162	1.10	103	100	
9	316	0.72	0.848528	1.40	103	100	
10	324	0.78	0.883176	1.60	104	101	
11	308	0.82	0.905539	1.60	104	101	
12	312	0.86	0.927362	1.70	105	101	
13	304	0.36	0.6	0.74	103	101	
14	318	0.39	0.6245	0.80	104	101	
15	310	0.51	0.714143	1.00	104	102	
16	301	0.54	0.734847	1.10	105	102	
17	314	0.64	0.8	1.30	105	102	
18	328	0.71	0.842615	1.40	105	102	
19	317	0.62	0.787401	1.20	105	102	
20	315	0.59	0.768115	1.20	105	102	
21	330	0.73	0.8544	1.50	105	102	
22	317	0.82	0.905539	1.60	106	103	
23	326	0.86	0.927362	1.70	106	103	METER T.
24	320	0.61	0.781025	1.20	106	103	AVERAGE
	314.95833		0.7905	1.2558	103.6250	101.0833	102.3542

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : RTO #1 Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	215.8
NOZZLE DIAMETER (INCH.) :	0.2487	PARTICULATE WEIGHT (Front half mg)	23.53
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	14.83
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.36
GAS METER VOL.(Cu.Ft.) :	40.063	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000337	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	39.0722
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.1577
FRACTIONAL MOISTURE CONTENT (%):	0.2063
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8415
STACK PRESSURE (inch Hg):	30.1265
STACK GAS VELOCITY (ft/sec.):	55.0872
ACTUAL STACK GAS FLOW RATE (ACFM):	149283.577
STANDARD STACK GAS FLOW RATE (SCFH):	4893744.72

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0093
PARTICULATE CONCENTRATION (LBS/SCF):	1.33E-06
PARTICULATE EMISSION (LBS/HR):	6.4984

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0059
PARTICULATE CONCENTRATION (LBS/SCF):	8.37E-07
PARTICULATE EMISSION (LBS/HR):	4.0957
ISOKINETIC RATIO (%):	106.9644

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	312	0.39	0.6245	0.80	98	98	
2	315	0.52	0.72111	1.00	98	98	
3	310	0.48	0.69282	0.98	99	98	
4	311	0.65	0.806226	1.30	100	98	
5	305	0.62	0.787401	1.20	100	98	
6	315	0.73	0.8544	1.50	101	98	
7	315	0.58	0.761577	1.10	102	98	
8	307	0.62	0.787401	1.20	102	99	
9	313	0.68	0.824621	1.30	102	99	
10	328	0.84	0.916515	1.70	102	99	
11	303	0.76	0.87178	1.50	102	99	
12	308	0.63	0.793725	1.20	102	99	
13	309	0.44	0.663325	0.90	101	100	
14	317	0.48	0.69282	0.98	101	100	
15	322	0.51	0.714143	1.00	102	99	
16	319	0.57	0.754983	1.10	102	99	
17	308	0.51	0.714143	1.00	102	99	
18	310	0.69	0.830662	1.40	102	99	
19	303	0.55	0.74162	1.10	102	99	
20	312	0.61	0.781025	1.20	101	99	
21	308	0.73	0.8544	1.50	101	99	
22	325	0.81	0.9	1.60	100	99	
23	317	0.89	0.943398	1.80	100	99	METER T.
24	303	0.65	0.806226	1.30	99	99	AVERAGE
	312.29167		0.7850	1.2358	100.8750	98.7917	99.8333

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : RTO #2 Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	193.5
NOZZLE DIAMETER (INCH.) :	0.2483	PARTICULATE WEIGHT (Front half mg)	24.2
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg)	14.06
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	0.4
GAS METER VOL.(Cu.Ft.) :	35.661	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000336	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	32.4371
VOLUME OF WATER VAPOR (STD. CU.FT.):	9.1080
FRACTIONAL MOISTURE CONTENT (%):	0.2192
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6197
STACK PRESSURE (inch Hg):	30.1294
STACK GAS VELOCITY (ft/sec.):	51.5131
ACTUAL STACK GAS FLOW RATE (ACFM):	139598.077
STANDARD STACK GAS FLOW RATE (SCFH):	4477173.26

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0115
PARTICULATE CONCENTRATION (LBS/SCF):	1.65E-06
PARTICULATE EMISSION (LBS/HR):	7.3652

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0067
PARTICULATE CONCENTRATION (LBS/SCF):	9.56E-07
PARTICULATE EMISSION (LBS/HR):	4.2791
ISOKINETIC RATIO (%):	97.3756

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	320	0.38	0.616441	0.67	113	113	
2	319	0.40	0.632456	0.70	114	113	
3	319	0.41	0.640312	0.72	114	113	
4	317	0.35	0.591608	0.67	116	112	
5	316	0.36	0.6	0.63	118	112	
6	316	0.55	0.74162	0.97	119	112	
7	316	0.60	0.774597	1.20	119	112	
8	316	0.70	0.83666	1.20	119	112	
9	316	0.71	0.842615	1.20	119	112	
10	316	0.69	0.830662	1.20	119	112	
11	316	0.70	0.83666	1.20	119	112	
12	315	0.70	0.83666	1.20	119	112	
13	314	0.35	0.591608	0.61	116	111	
14	316	0.37	0.608276	0.65	117	112	
15	316	0.46	0.678233	0.81	116	112	
16	317	0.42	0.648074	0.74	118	112	
17	317	0.40	0.632456	0.70	119	113	
18	317	0.50	0.707107	0.88	120	113	
19	317	0.67	0.818535	1.20	121	113	
20	317	0.67	0.818535	1.20	121	114	
21	316	0.63	0.793725	1.10	123	115	
22	317	0.64	0.8	1.10	124	115	
23	316	0.66	0.812404	1.20	124	115	METER T.
24	317	0.65	0.806226	1.10	124	115	AVERAGE
	316.625		0.7290	0.9521	118.7917	112.7917	115.7917

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : RTO #2 Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	190.6
NOZZLE DIAMETER (INCH.) :	0.2483	PARTICULATE WEIGHT (Front half mg)	17.9
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg)	5.98
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.35
GAS METER VOL.(Cu.Ft.) :	36.007	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (Inch):	91	STACK LENGTH(Inches) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(Inches) :	
NOZZLE AREA (feet):	0.000336	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	32.8426
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.9715
FRACTIONAL MOISTURE CONTENT (%):	0.2146
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6713
STACK PRESSURE (inch Hg):	30.1257
STACK GAS VELOCITY (ft/sec.):	52.1945
ACTUAL STACK GAS FLOW RATE (ACFM):	141444.637
STANDARD STACK GAS FLOW RATE (SCFH):	4543017.38

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0084
PARTICULATE CONCENTRATION (LBS/SCF):	1.20E-06
PARTICULATE EMISSION (LBS/HR):	5.4597

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0028
PARTICULATE CONCENTRATION (LBS/SCF):	4.01E-07
PARTICULATE EMISSION (LBS/HR):	1.8240
ISOKINETIC RATIO (%):	97.1641

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	324	0.37	0.608276	0.65	111	111	
2	321	0.37	0.608276	0.65	112	111	
3	320	0.43	0.655744	0.76	113	110	
4	320	0.45	0.67082	0.79	114	110	
5	320	0.44	0.663325	0.77	115	110	
6	320	0.55	0.74162	0.97	116	110	
7	319	0.60	0.774597	1.00	116	110	
8	319	0.63	0.793725	1.10	116	110	
9	319	0.63	0.793725	1.10	117	110	
10	320	0.69	0.830662	1.20	116	110	
11	321	0.69	0.830662	1.20	117	110	
12	322	0.68	0.824621	1.20	116	110	
13	319	0.40	0.632456	0.70	117	111	
14	320	0.40	0.632456	0.70	118	111	
15	320	0.43	0.655744	0.76	119	111	
16	321	0.45	0.67082	0.80	119	112	
17	320	0.44	0.663325	0.77	119	112	
18	319	0.60	0.774597	1.00	120	112	
19	319	0.59	0.768115	1.00	119	112	
20	320	0.64	0.8	1.10	119	113	
21	321	0.68	0.824621	1.20	120	114	
22	319	0.70	0.83666	1.20	121	114	
23	319	0.68	0.824621	1.20	121	114	METER T.
24	319	0.68	0.824621	1.20	120	113	AVERAGE
	320.04167		0.7377	0.9592	117.1250	111.2917	114.2083

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : RTO #2 Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	181.5
NOZZLE DIAMETER (INCH.) :	0.2483	PARTICULATE WEIGHT (Front half mg)	17.1
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg)	5.35
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	35.535	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(Inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(Inchs) :	
NOZZLE AREA (feet):	0.000336	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	32.5216
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.5432
FRACTIONAL MOISTURE CONTENT (%):	0.2080
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.7432
STACK PRESSURE (inch Hg):	30.1272
STACK GAS VELOCITY (ft/sec.):	52.0240
ACTUAL STACK GAS FLOW RATE (ACFM):	140982.378
STANDARD STACK GAS FLOW RATE (SCFH):	4577691.97

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0081
PARTICULATE CONCENTRATION (LBS/SCF):	1.16E-06
PARTICULATE EMISSION (LBS/HR):	5.3074

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0025
PARTICULATE CONCENTRATION (LBS/SCF):	3.63E-07
PARTICULATE EMISSION (LBS/HR):	1.6605
ISOKINETIC RATIO (%):	95.4854

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	313	0.36	0.6	0.63	109	109	
2	312	0.39	0.6245	0.68	109	109	
3	314	0.41	0.640312	0.72	109	109	
4	315	0.46	0.678233	0.81	110	109	
5	315	0.45	0.67082	0.79	111	109	
6	315	0.56	0.748331	0.98	112	109	
7	314	0.66	0.812404	1.20	115	109	
8	315	0.67	0.818535	1.20	115	109	
9	315	0.70	0.83666	1.20	116	109	
10	317	0.68	0.824621	1.20	116	109	
11	318	0.68	0.824621	1.20	116	109	
12	319	0.68	0.824621	1.20	117	109	
13	320	0.39	0.6245	0.68	116	109	
14	321	0.39	0.6245	0.68	116	109	
15	320	0.38	0.616441	0.67	116	110	
16	320	0.43	0.655744	0.76	116	110	
17	322	0.41	0.640312	0.72	117	110	
18	321	0.56	0.748331	0.98	117	111	
19	320	0.61	0.781025	1.10	118	111	
20	326	0.65	0.806226	1.10	118	111	
21	321	0.68	0.824621	1.20	118	111	
22	321	0.68	0.824621	1.20	118	111	
23	320	0.68	0.824621	1.20	117	110	METER T.
24	319	0.67	0.818535	1.20	117	110	AVERAGE
	318.04167		0.7372	0.9708	114.9583	109.6250	112.2917

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #1 Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	225.1
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg)	325.94
METER COEFFICIENT (Y) :	1.03	PARTICULATE WEIGHT (Back half mg)	42.74
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	37.342	PERCENT CO2 :	1.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (Inch):	42	STACK LENGTH(Inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(Inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.0125
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.5955
FRACTIONAL MOISTURE CONTENT (%):	0.2323
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0000
MOLECULAR WT. OF STACK GAS (WET BASE):	26.4445
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	81.6187
ACTUAL STACK GAS FLOW RATE (ACFM):	47115.8132
STANDARD STACK GAS FLOW RATE (SCFH):	1721339.45

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.1436
PARTICULATE CONCENTRATION (LBS/SCF):	2.05E-05
PARTICULATE EMISSION (LBS/HR):	35.3338

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0188
PARTICULATE CONCENTRATION (LBS/SCF):	2.69E-06
PARTICULATE EMISSION (LBS/HR):	4.6333
ISOKINETIC RATIO (%):	106.0483

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	190	1.20	1.095445	0.99	116	110	
2	191	1.40	1.183216	1.15	127	108	
3	195	1.60	1.264911	1.20	127	109	
4	190	1.90	1.378405	1.60	127	110	
5	191	2.00	1.414214	1.70	129	110	
6	190	2.10	1.449138	1.70	133	111	
7	190	1.50	1.224745	1.20	134	112	
8	191	1.70	1.30384	1.40	136	112	
9	190	1.80	1.341641	1.50	131	113	
10	193	0.65	0.806226	0.53	137	114	
11	191	0.55	0.74162	0.44	137	115	
12	190	0.86	0.927362	0.71	138	117	
13	190	1.40	1.183216	1.10	138	117	
14	191	1.70	1.30384	1.40	139	117	
15	192	1.90	1.378405	1.50	139	118	
16	193	2.10	1.449138	1.70	140	118	
17	190	2.10	1.449138	1.70	140	118	
18	191	2.20	1.48324	1.80	142	118	
19	191	1.90	1.378405	1.60	140	118	
20	190	1.70	1.30384	1.40	140	118	
21	191	1.60	1.264911	1.30	140	118	
22	190	1.50	1.224745	1.20	140	118	
23	190	1.30	1.140175	1.00	140	118	METER T.
24	190	1.10	1.048809	0.91	140	118	AVERAGE
	190.875		1.2391	1.2804	135.4167	114.7917	125.1042

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #1 Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	188.7
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg)	219.19
METER COEFFICIENT (Y) :	1.03	PARTICULATE WEIGHT (Back half mg)	23.4
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	37.454	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (Inch):	42	STACK LENGTH(Inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.9907
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.8821
FRACTIONAL MOISTURE CONTENT (%):	0.2025
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8368
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	81.6619
ACTUAL STACK GAS FLOW RATE (ACFM):	47140.7947
STANDARD STACK GAS FLOW RATE (SCFH):	1777757.86

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0967
PARTICULATE CONCENTRATION (LBS/SCF):	1.38E-05
PARTICULATE EMISSION (LBS/HR):	24.5555

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0103
PARTICULATE CONCENTRATION (LBS/SCF):	1.47E-06
PARTICULATE EMISSION (LBS/HR):	2.6215
ISOKINETIC RATIO (%):	102.6183

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	190	1.20	1.095445	0.99	115	114	
2	190	1.40	1.183216	1.70	120	115	
3	190	1.60	1.264911	1.30	134	116	
4	191	1.90	1.378405	1.60	136	117	
5	193	2.10	1.449138	1.70	137	117	
6	191	2.10	1.449138	1.70	138	115	
7	196	2.00	1.414214	1.60	139	116	
8	199	1.60	1.264911	1.30	140	116	
9	193	1.40	1.183216	1.20	140	117	
10	196	0.70	0.83666	0.97	140	117	
11	195	0.60	0.774597	0.49	140	118	
12	197	0.80	0.894427	0.66	141	118	
13	196	1.50	1.224745	1.20	141	120	
14	197	1.80	1.341641	1.50	142	122	
15	196	2.00	1.414214	1.60	142	122	
16	196	2.20	1.48324	1.80	142	122	
17	195	2.20	1.48324	1.80	135	125	
18	197	2.20	1.48324	1.80	135	125	
19	196	2.00	1.414214	1.60	133	123	
20	197	1.80	1.341641	1.50	132	122	
21	197	1.50	1.224745	1.20	132	121	
22	199	1.40	1.183216	1.20	132	121	
23	200	1.20	1.095445	0.99	132	121	METER T.
24	195	1.00	1	0.82	132	121	AVERAGE
	195.08333		1.2449	1.3425	135.4167	119.2083	127.3125

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #1 Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	219.4
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg)	255.69
METER COEFFICIENT (Y) :	1.03	PARTICULATE WEIGHT (Back half mg)	28.64
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	37.152	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (Inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.6023
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.3272
FRACTIONAL MOISTURE CONTENT (%):	0.2299
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.4100
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	81.5932
ACTUAL STACK GAS FLOW RATE (ACFM):	47101.1025
STANDARD STACK GAS FLOW RATE (SCFH):	1710555.09

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.1140
PARTICULATE CONCENTRATION (LBS/SCF):	1.63E-05
PARTICULATE EMISSION (LBS/HR):	27.8711

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0128
PARTICULATE CONCENTRATION (LBS/SCF):	1.83E-06
PARTICULATE EMISSION (LBS/HR):	3.1219
ISOKINETIC RATIO (%):	105.4666

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	197	1.20	1.095445	0.99	117	115	
2	198	1.70	1.30384	1.40	131	114	
3	199	2.10	1.449138	1.70	132	115	
4	197	2.10	1.449138	1.70	133	115	
5	196	2.00	1.414214	1.70	134	116	
6	195	1.90	1.378405	1.60	135	117	
7	195	2.00	1.414214	1.70	136	117	
8	196	1.50	1.224745	1.20	137	119	
9	196	1.20	1.095445	0.99	138	119	
10	197	0.70	0.83666	0.57	140	120	
11	196	0.51	0.714143	0.42	143	120	
12	195	0.80	0.894427	0.66	143	121	
13	196	1.40	1.183216	1.20	143	120	
14	197	1.60	1.264911	1.30	143	121	
15	197	2.00	1.414214	1.70	143	121	
16	197	2.10	1.449138	1.70	143	121	
17	199	2.10	1.449138	1.70	143	121	
18	199	2.10	1.449138	1.70	143	121	
19	199	2.00	1.414214	1.70	143	121	
20	197	1.60	1.264911	1.30	143	121	
21	197	1.40	1.183216	1.20	143	121	
22	196	1.40	1.183216	1.10	143	121	
23	197	1.10	1.048809	0.91	143	121	METER T.
24	197	1.00	1	0.82	143	121	AVERAGE
	196.875		1.2322	1.2900	138.9583	119.1250	129.0417

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #2 Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	240.6
NOZZLE DIAMETER (INCH.) :	0.1857	PARTICULATE WEIGHT (Front half mg)	275.43
METER COEFFICIENT (Y) :	1.0327	PARTICULATE WEIGHT (Back half mg)	29.96
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	36.433	PERCENT CO2 :	4
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000188	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.9888
VOLUME OF WATER VAPOR (STD. CU.FT.):	11.3250
FRACTIONAL MOISTURE CONTENT (%):	0.2445
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.3200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.5519
STACK PRESSURE (Inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	76.4898
ACTUAL STACK GAS FLOW RATE (ACFM):	44155.0742
STANDARD STACK GAS FLOW RATE (SCFH):	1695970.8

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.1215
PARTICULATE CONCENTRATION (LBS/SCF):	1.74E-05
PARTICULATE EMISSION (LBS/HR):	29.4380

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0132
PARTICULATE CONCENTRATION (LBS/SCF):	1.89E-06
PARTICULATE EMISSION (LBS/HR):	3.2021
ISOKINETIC RATIO (%):	105.6019

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	170	1.20	1.095445	0.98	106	106	
2	170	1.60	1.264911	1.30	108	106	
3	164	1.40	1.183216	1.10	110	106	
4	158	2.00	1.414214	1.60	112	106	
5	150	1.90	1.378405	1.60	114	106	
6	146	2.00	1.414214	1.60	115	106	
7	142	1.80	1.341641	1.50	116	108	
8	140	1.70	1.30384	1.40	116	108	
9	138	1.60	1.264911	1.30	116	108	
10	135	1.10	1.048809	0.89	116	108	
11	132	0.88	0.938083	0.71	117	110	
12	137	0.67	0.818535	0.55	117	110	
13	163	1.20	1.095445	0.98	117	110	
14	165	1.50	1.224745	1.20	118	110	
15	157	1.80	1.341641	1.50	118	111	
16	153	1.90	1.378405	1.60	118	111	
17	155	1.90	1.378405	1.60	118	111	
18	150	1.80	1.341641	1.50	117	112	
19	149	1.70	1.30384	1.40	117	112	
20	147	1.60	1.264911	1.30	118	112	
21	143	1.50	1.224745	1.20	118	113	
22	145	1.10	1.048809	0.90	118	113	
23	138	0.92	0.959166	0.75	118	114	METER T.
24	135	0.70	0.83666	0.57	118	114	AVERAGE
	149.25		1.2027	1.2096	115.6667	109.6250	112.6458

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #2 Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	247.6
NOZZLE DIAMETER (INCH.) :	0.1857	PARTICULATE WEIGHT (Front half mg)	153.94
METER COEFFICIENT (Y) :	1.0327	PARTICULATE WEIGHT (Back half mg)	35.36
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	36.405	PERCENT CO2 :	3.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (Inch):	42	STACK LENGTH(Inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(Inches) :	
NOZZLE AREA (feet):	0.000188	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.7214
VOLUME OF WATER VAPOR (STD. CU.FT.):	11.6545
FRACTIONAL MOISTURE CONTENT (%):	0.2513
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.2400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.4153
STACK PRESSURE (Inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	76.7708
ACTUAL STACK GAS FLOW RATE (ACFM):	44317.3147
STANDARD STACK GAS FLOW RATE (SCFH):	1679923.61

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0684
PARTICULATE CONCENTRATION (LBS/SCF):	9.78E-06
PARTICULATE EMISSION (LBS/HR):	16.4230

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0157
PARTICULATE CONCENTRATION (LBS/SCF):	2.25E-06
PARTICULATE EMISSION (LBS/HR):	3.7724
ISOKINETIC RATIO (%):	105.7960

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	164	1.30	1.140175	1.10	112	112	
2	165	1.50	1.224745	1.20	115	112	
3	163	1.50	1.224745	1.20	117	113	
4	165	1.90	1.378405	1.60	118	113	
5	160	2.00	1.414214	1.60	118	113	
6	157	2.00	1.414214	1.60	118	113	
7	154	1.80	1.341641	1.50	117	113	
8	153	1.60	1.264911	1.30	118	114	
9	149	1.50	1.224745	1.20	119	114	
10	145	1.00	1	0.82	119	115	
11	138	0.79	0.888819	0.64	120	115	
12	133	0.70	0.83666	0.57	120	115	
13	163	1.10	1.048809	0.90	119	115	
14	162	1.40	1.183216	1.10	120	115	
15	160	1.80	1.341641	1.50	120	115	
16	153	2.00	1.414214	1.60	120	116	
17	155	2.00	1.414214	1.60	119	116	
18	151	1.80	1.341641	1.50	119	116	
19	147	1.80	1.341641	1.50	119	116	
20	146	1.70	1.30384	1.40	119	116	
21	145	1.50	1.224745	1.20	120	116	
22	140	1.20	1.095445	0.98	120	117	
23	138	0.90	0.948683	0.73	120	116	METER T.
24	137	0.68	0.824621	0.55	119	116	AVERAGE
	151.79167		1.2015	1.2038	118.5417	114.6667	116.6042

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #2 Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	249.9
NOZZLE DIAMETER (INCH.) :	0.1857	PARTICULATE WEIGHT (Front half mg)	174.04
METER COEFFICIENT (Y) :	1.0327	PARTICULATE WEIGHT (Back half mg)	23.74
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	37.152	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000188	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.4638
VOLUME OF WATER VAPOR (STD. CU.FT.):	11.7628
FRACTIONAL MOISTURE CONTENT (%):	0.2491
DRY BASE:	80.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.3203
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	76.8983
ACTUAL STACK GAS FLOW RATE (ACFM):	44390.9257
STANDARD STACK GAS FLOW RATE (SCFH):	1685668.03

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0757
PARTICULATE CONCENTRATION (LBS/SCF):	1.08E-05
PARTICULATE EMISSION (LBS/HR):	18.2408

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0103
PARTICULATE CONCENTRATION (LBS/SCF):	1.48E-06
PARTICULATE EMISSION (LBS/HR):	2.4882
ISOKINETIC RATIO (%):	107.6896

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	152	1.10	1.048809	0.90	113	113	
2	152	1.50	1.224745	1.30	114	113	
3	151	1.70	1.30384	1.40	114	113	
4	153	1.90	1.378405	1.60	115	113	
5	149	2.00	1.414214	1.60	116	113	
6	156	1.90	1.378405	1.60	117	113	
7	150	1.80	1.341641	1.50	118	113	
8	153	1.70	1.30384	1.40	118	113	
9	153	1.50	1.224745	1.20	119	113	
10	156	1.20	1.095445	0.98	119	114	
11	154	0.90	0.948683	0.73	119	114	
12	153	0.68	0.824621	0.56	120	114	
13	156	1.20	1.095445	0.98	120	114	
14	147	1.60	1.264911	1.30	120	114	
15	151	1.50	1.224745	1.20	120	114	
16	156	2.00	1.414214	1.60	121	114	
17	158	2.00	1.414214	1.60	119	115	
18	159	1.80	1.341641	1.50	119	115	
19	154	1.80	1.341641	1.50	119	115	
20	150	1.70	1.30384	1.40	119	115	
21	149	1.40	1.183216	1.10	119	115	
22	148	1.00	1	0.81	120	115	
23	151	0.80	0.894427	0.65	120	115	METER T.
24	150	0.72	0.848528	0.59	120	116	AVERAGE
	152.54167		1.2006	1.2083	118.2500	114.0000	116.1250

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #3 Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	195.1
NOZZLE DIAMETER (INCH.) :	0.187	PARTICULATE WEIGHT (Front half mg)	345.22
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg)	42.89
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-9.5
GAS METER VOL.(Cu.Ft.) :	33.653	PERCENT CO2 :	4
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000191	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	32.7686
VOLUME OF WATER VAPOR (STD. CU.FT.):	9.1834
FRACTIONAL MOISTURE CONTENT (%):	0.2189
DRY BASE:	78.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.3600
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8733
STACK PRESSURE (inch Hg):	29.4015
STACK GAS VELOCITY (ft/sec.):	76.1126
ACTUAL STACK GAS FLOW RATE (ACFM):	43937.3472
STANDARD STACK GAS FLOW RATE (SCFH):	1691392.02

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.1626
PARTICULATE CONCENTRATION (LBS/SCF):	2.32E-05
PARTICULATE EMISSION (LBS/HR):	39.2908

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0202
PARTICULATE CONCENTRATION (LBS/SCF):	2.89E-06
PARTICULATE EMISSION (LBS/HR):	4.8815
ISOKINETIC RATIO (%):	97.7941

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	179	0.71	0.842615	0.69	87	87	
2	182	0.82	0.905539	0.71	90	87	
3	181	1.40	1.183216	1.20	92	80	
4	181	1.90	1.378405	1.64	94	88	
5	179	2.00	1.414214	1.60	96	88	
6	177	2.00	1.414214	1.73	96	89	
7	173	1.90	1.378405	1.73	97	89	
8	152	1.70	1.30384	1.47	97	89	
9	166	1.20	1.095445	1.29	98	90	
10	144	1.30	1.140175	1.03	98	90	
11	135	1.10	1.048809	0.95	99	90	
12	141	0.91	0.953939	0.70	98	90	
13	142	0.51	0.714143	0.44	95	91	
14	172	1.40	1.183216	1.20	96	91	
15	173	1.80	1.341641	1.50	98	91	
16	174	2.00	1.414214	1.73	98	91	
17	177	2.00	1.414214	1.73	98	91	
18	180	2.00	1.414214	1.73	99	92	
19	181	1.80	1.341641	1.55	99	92	
20	184	1.80	1.341641	1.55	99	92	
21	186	1.50	1.224745	1.30	99	92	
22	187	1.20	1.095445	1.12	99	93	
23	187	1.00	1	0.86	99	93	METER T.
24	187	0.82	0.905539	0.71	99	93	AVERAGE
	171.66667		1.1854	1.2567	96.6667	89.9583	93.3125

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #3 Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	222.1
NOZZLE DIAMETER (INCH.) :	0.187	PARTICULATE WEIGHT (Front half mg)	252.24
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg)	22.34
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-10
GAS METER VOL.(Cu.Ft.) :	36.545	PERCENT CO2 :	1.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000191	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.3109
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.4542
FRACTIONAL MOISTURE CONTENT (%):	0.2284
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.4718
STACK PRESSURE (inch Hg):	29.3647
STACK GAS VELOCITY (ft/sec.):	76.9299
ACTUAL STACK GAS FLOW RATE (ACFM):	44409.1717
STANDARD STACK GAS FLOW RATE (SCFH):	1680596.86

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.1102
PARTICULATE CONCENTRATION (LBS/SCF):	1.58E-05
PARTICULATE EMISSION (LBS/HR):	26.4715

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0098
PARTICULATE CONCENTRATION (LBS/SCF):	1.40E-06
PARTICULATE EMISSION (LBS/HR):	2.3445
ISOKINETIC RATIO (%):	106.0582

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	186	0.55	0.74162	0.48	92	92	
2	190	0.90	0.948683	0.78	93	92	
3	189	1.40	1.183216	1.20	95	92	
4	191	1.90	1.378405	1.64	97	92	
5	188	2.00	1.414214	1.73	98	93	
6	190	1.90	1.378405	1.64	98	93	
7	190	1.80	1.341641	1.55	101	93	
8	188	1.90	1.378405	1.64	102	94	
9	188	1.80	1.341641	1.55	102	94	
10	188	1.60	1.264911	1.38	103	94	
11	185	1.60	1.264911	1.38	103	95	
12	174	1.30	1.140175	1.12	104	95	
13	175	1.10	1.048809	0.95	100	96	
14	181	1.10	1.048809	0.95	101	96	
15	164	1.10	1.048809	0.95	101	96	
16	183	1.10	1.048809	0.95	102	96	
17	140	1.10	1.048809	0.95	101	96	
18	132	1.90	1.378405	1.64	101	96	
19	123	1.80	1.341641	1.55	102	96	
20	141	1.80	1.341641	1.55	104	96	
21	177	1.78	1.334166	1.46	105	96	
22	165	1.60	1.264911	1.38	104	97	
23	173	0.92	0.959166	0.80	101	97	METER T.
24	173	0.69	0.830662	0.60	100	97	AVERAGE
	173.91667		1.1863	1.2425	100.4167	94.7500	97.5833

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #3 Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	197.8
NOZZLE DIAMETER (INCH.) :	0.187	PARTICULATE WEIGHT (Front half mg)	238.35
METER COEFFICIENT (Y) :	0.9777	PARTICULATE WEIGHT (Back half mg)	19.1
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-9.5
GAS METER VOL.(Cu.Ft.) :	37.059	PERCENT CO2 :	3
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000191	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.6889
VOLUME OF WATER VAPOR (STD. CU.FT.):	9.3104
FRACTIONAL MOISTURE CONTENT (%):	0.2116
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.2000
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8300
STACK PRESSURE (inch Hg):	29.4015
STACK GAS VELOCITY (ft/sec.):	77.3607
ACTUAL STACK GAS FLOW RATE (ACFM):	44657.8131
STANDARD STACK GAS FLOW RATE (SCFH):	1705045.56

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.1060
PARTICULATE CONCENTRATION (LBS/SCF):	1.52E-05
PARTICULATE EMISSION (LBS/HR):	25.8327

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0085
PARTICULATE CONCENTRATION (LBS/SCF):	1.21E-06
PARTICULATE EMISSION (LBS/HR):	2.0701
ISOKINETIC RATIO (%):	102.6957

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	169	1.00	1	0.86	93	93	
2	174	0.84	0.916515	0.75	94	93	
3	177	1.70	1.30384	1.51	96	93	
4	185	1.90	1.378405	1.68	97	93	
5	185	2.00	1.414214	1.77	98	93	
6	190	1.90	1.378405	1.68	99	93	
7	192	1.90	1.378405	1.68	99	93	
8	187	1.70	1.30384	1.50	99	93	
9	185	1.80	1.341641	1.60	100	93	
10	185	1.60	1.264911	1.42	100	94	
11	183	1.50	1.224745	1.33	100	94	
12	179	1.40	1.183216	1.24	100	94	
13	175	1.10	1.048809	0.97	96	94	
14	177	1.10	1.048809	0.97	98	94	
15	179	1.10	1.048809	0.97	99	94	
16	184	1.10	1.048809	0.97	100	94	
17	185	1.20	1.095445	1.06	100	94	
18	183	1.10	1.048809	0.97	100	95	
19	190	1.90	1.378405	1.70	101	95	
20	192	1.90	1.378405	1.70	100	95	
21	188	1.70	1.30384	1.50	101	95	
22	187	1.70	1.30384	1.50	100	95	
23	185	1.00	1	0.88	100	95	METER T.
24	172	0.72	0.848528	0.63	100	95	AVERAGE
	182.83333		1.1934	1.2850	98.7500	93.9167	96.3333

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #5 Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	222.9
NOZZLE DIAMETER (INCH.) :	0.187	PARTICULATE WEIGHT (Front half mg)	138.31
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg)	4.67
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	33.168	PERCENT CO2 :	4
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000191	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	31.2401
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.4919
FRACTIONAL MOISTURE CONTENT (%):	0.2514
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.3200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.4740
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	71.1763
ACTUAL STACK GAS FLOW RATE (ACFM):	41087.7711
STANDARD STACK GAS FLOW RATE (SCFH):	1517894.97

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0683
PARTICULATE CONCENTRATION (LBS/SCF):	9.76E-06
PARTICULATE EMISSION (LBS/HR):	14.8181

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0023
PARTICULATE CONCENTRATION (LBS/SCF):	3.30E-07
PARTICULATE EMISSION (LBS/HR):	0.5003
ISOKINETIC RATIO (%):	103.8898

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	185	1.20	1.095445	0.90	106	107	
2	183	1.40	1.183216	1.10	110	107	
3	185	1.50	1.224745	1.20	111	107	
4	185	1.60	1.264911	1.30	112	107	
5	185	1.50	1.224745	1.20	113	102	
6	185	1.50	1.224745	1.20	114	102	
7	181	1.40	1.183216	1.10	114	103	
8	174	1.40	1.183216	1.10	115	103	
9	164	1.30	1.140175	1.00	115	103	
10	137	1.00	1	0.20	115	110	
11	116	0.86	0.927362	0.67	115	110	
12	120	0.64	0.8	0.50	111	110	
13	183	0.91	0.953939	0.78	113	110	
14	182	1.00	1	0.81	114	110	
15	183	1.10	1.048809	0.90	115	110	
16	172	1.20	1.095445	0.97	115	110	
17	176	1.30	1.140175	1.00	115	111	
18	175	1.30	1.140175	1.00	115	111	
19	182	1.50	1.224745	1.20	115	111	
20	185	1.50	1.224745	1.20	115	111	
21	180	1.40	1.183216	1.10	116	111	
22	176	1.20	1.095445	0.97	116	112	
23	118	0.90	0.948683	0.73	116	112	METER T.
24	112	0.84	0.916515	0.68	116	112	AVERAGE
	167.66667		1.1010	0.9504	113.8333	108.4167	111.1250

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #5 Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	220.3
NOZZLE DIAMETER (INCH.) :	0.187	PARTICULATE WEIGHT (Front half mg)	173.83
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg)	10.74
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	34.153	PERCENT CO2 :	3.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000191	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	31.8704
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.3695
FRACTIONAL MOISTURE CONTENT (%):	0.2455
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.2600
MOLECULAR WT. OF STACK GAS (WET BASE):	26.4958
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	74.2809
ACTUAL STACK GAS FLOW RATE (ACFM):	42879.9781
STANDARD STACK GAS FLOW RATE (SCFH):	1564437.72

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0842
PARTICULATE CONCENTRATION (LBS/SCF):	1.20E-05
PARTICULATE EMISSION (LBS/HR):	18.8150

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0052
PARTICULATE CONCENTRATION (LBS/SCF):	7.43E-07
PARTICULATE EMISSION (LBS/HR):	1.1625
ISOKINETIC RATIO (%):	102.8325

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	186	0.82	0.905539	0.65	111	111	
2	187	1.00	1	0.81	114	111	
3	184	1.20	1.095445	0.97	116	111	
4	185	1.30	1.140175	1.00	118	112	
5	183	1.40	1.183216	1.10	118	112	
6	178	1.50	1.224745	1.20	118	112	
7	175	1.50	1.224745	1.20	119	112	
8	177	1.60	1.264911	1.30	119	113	
9	176	1.30	1.140175	1.00	120	113	
10	180	1.20	1.095445	0.97	124	113	
11	181	1.00	1	0.81	120	113	
12	178	0.84	0.916515	0.71	120	113	
13	172	0.92	0.959166	0.74	120	114	
14	180	1.40	1.183216	1.10	121	114	
15	182	1.60	1.264911	1.30	121	114	
16	185	1.50	1.224745	1.20	121	114	
17	185	1.70	1.30384	1.30	121	114	
18	184	1.70	1.30384	1.30	122	114	
19	183	1.60	1.264911	1.30	122	114	
20	180	1.50	1.224745	1.20	122	114	
21	181	1.50	1.224745	1.20	122	115	
22	178	1.30	1.140175	1.00	123	115	
23	172	1.20	1.095445	0.97	123	115	METER T.
24	182	0.86	0.927362	0.66	123	115	AVERAGE
	180.58333		1.1378	1.0413	119.9167	113.2500	116.5833

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 11-Jul-95
PLACE : Dryer #5 Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	193
NOZZLE DIAMETER (INCH.) :	0.187	PARTICULATE WEIGHT (Front half mg)	145.33
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg)	7.2
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	33.926	PERCENT CO2 :	4
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000191	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	31.6517
VOLUME OF WATER VAPOR (STD. CU.FT.):	9.0845
FRACTIONAL MOISTURE CONTENT (%):	0.2230
DRY BASE:	78.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.3600
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8266
STACK PRESSURE (Inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	72.9606
ACTUAL STACK GAS FLOW RATE (ACFM):	42117.8184
STANDARD STACK GAS FLOW RATE (SCFH):	1586133.39

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0708
PARTICULATE CONCENTRATION (LBS/SCF):	1.01E-05
PARTICULATE EMISSION (LBS/HR):	16.0586

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0035
PARTICULATE CONCENTRATION (LBS/SCF):	5.02E-07
PARTICULATE EMISSION (LBS/HR):	0.7956
ISOKINETIC RATIO (%):	100.7294

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	168	0.82	0.905539	0.65	111	111	
2	179	1.00	1	0.81	115	112	
3	178	1.20	1.095445	0.97	116	112	
4	179	1.30	1.140175	1.00	117	112	
5	180	1.40	1.183216	1.10	117	112	
6	181	1.50	1.224745	1.20	118	113	
7	182	1.50	1.224745	1.20	118	113	
8	184	1.60	1.264911	1.30	119	114	
9	184	1.30	1.140175	1.00	119	114	
10	183	1.20	1.095445	0.98	119	114	
11	182	1.00	1	0.81	120	114	
12	181	0.86	0.927362	0.69	120	114	
13	179	0.90	0.948683	0.73	120	115	
14	178	1.30	1.140175	1.00	120	115	
15	179	1.40	1.183216	1.10	120	115	
16	180	1.50	1.224745	1.20	120	115	
17	178	1.60	1.264911	1.30	121	115	
18	179	1.60	1.264911	1.30	121	115	
19	181	1.70	1.30384	1.40	121	116	
20	182	1.60	1.264911	1.30	121	116	
21	179	1.50	1.224745	1.20	121	116	
22	176	1.30	1.140175	1.00	122	116	
23	174	0.92	0.959166	0.74	122	116	METER T.
24	172	0.81	0.9	0.65	122	116	AVERAGE
	179.08333		1.1259	1.0262	119.1667	114.2083	116.6875

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : RTO #1 Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	236.7
NOZZLE DIAMETER (INCH.) :	0.2573	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.41
GAS METER VOL.(Cu.Ft.) :	39.756	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.2	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000361	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	39.6872
VOLUME OF WATER VAPOR (STD. CU.FT.):	11.1415
FRACTIONAL MOISTURE CONTENT (%):	0.2192
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6825
STACK PRESSURE (inch Hg):	30.2301
STACK GAS VELOCITY (ft/sec.):	54.0626
ACTUAL STACK GAS FLOW RATE (ACFM):	146506.955
STANDARD STACK GAS FLOW RATE (SCFH):	4737046.11
ISOKINETIC RATIO (%):	104.8646

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	303	0.39	0.6245	0.82	83	83	
2	299	0.42	0.648074	0.88	85	83	
3	308	0.41	0.640312	0.86	86	83	
4	319	0.58	0.761577	1.20	88	83	
5	310	0.55	0.74162	1.10	89	84	
6	308	0.64	0.8	1.30	90	84	
7	312	0.52	0.72111	1.00	90	84	
8	327	0.54	0.734847	1.10	91	85	
9	322	0.68	0.824621	1.40	91	85	
10	309	0.75	0.866025	1.50	92	86	
11	320	0.85	0.921954	1.70	92	86	
12	303	0.61	0.781025	1.20	93	86	
13	325	0.39	0.6245	0.82	90	87	
14	319	0.54	0.734847	1.10	91	87	
15	304	0.46	0.678233	0.97	92	88	
16	307	0.51	0.714143	1.00	93	88	
17	326	0.59	0.768115	1.20	93	88	
18	301	0.74	0.860233	1.50	94	88	
19	311	0.62	0.787401	1.30	94	88	
20	328	0.59	0.768115	1.20	94	88	
21	310	0.67	0.818535	1.40	94	89	
22	318	0.76	0.87178	1.60	94	89	
23	315	0.82	0.905539	1.70	95	89	METER T.
24	307	0.74	0.860233	1.50	95	89	AVERAGE
	312.95833		0.7691	1.2229	91.2083	86.2500	88.7292

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : RTO #1 Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	226.2
NOZZLE DIAMETER (INCH.) :	0.2573	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.35
GAS METER VOL.(Cu.Ft.) :	39.589	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000361	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	38.7974
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.6472
FRACTIONAL MOISTURE CONTENT (%):	0.2153
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.7255
STACK PRESSURE (inch Hg):	30.1257
STACK GAS VELOCITY (ft/sec.):	53.8841
ACTUAL STACK GAS FLOW RATE (ACFM):	146023.34
STANDARD STACK GAS FLOW RATE (SCFH):	4728619.34
ISOKINETIC RATIO (%):	102.6962

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	309	0.32	0.565685	0.67	89	89	
2	314	0.39	0.6245	0.82	90	89	
3	301	0.45	0.67082	0.94	93	89	
4	311	0.51	0.714143	1.00	95	90	
5	324	0.58	0.761577	1.20	95	90	
6	309	0.69	0.830662	1.40	97	91	
7	308	0.72	0.848528	1.50	97	91	
8	318	0.56	0.748331	1.10	99	91	
9	314	0.64	0.8	1.30	101	92	
10	307	0.61	0.781025	1.20	103	93	
11	311	0.75	0.866025	1.50	104	95	
12	324	0.81	0.9	1.70	105	95	
13	315	0.37	0.608276	0.78	102	98	
14	328	0.45	0.67082	0.94	103	98	
15	307	0.53	0.728011	1.10	103	98	
16	302	0.48	0.69282	1.00	103	98	
17	306	0.54	0.734847	1.10	102	98	
18	311	0.68	0.824621	1.40	102	98	
19	302	0.56	0.748331	1.10	102	98	
20	309	0.62	0.787401	1.30	102	98	
21	325	0.59	0.768115	1.20	102	97	
22	320	0.81	0.9	1.70	102	97	
23	315	0.84	0.916515	1.70	102	97	METER T.
24	320	0.79	0.888819	1.60	101	97	AVERAGE
	312.91667		0.7658	1.2188	99.7500	94.4583	97.1042

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : RTO #1 Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	233.7
NOZZLE DIAMETER (INCH.) :	0.2573	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.38
GAS METER VOL.(Cu.Ft.) :	39.425	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000361	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	37.8589
VOLUME OF WATER VAPOR (STD. CU.FT.):	11.0003
FRACTIONAL MOISTURE CONTENT (%):	0.2251
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6319
STACK PRESSURE (inch Hg):	30.1279
STACK GAS VELOCITY (ft/sec.):	53.6464
ACTUAL STACK GAS FLOW RATE (ACFM):	145379.064
STANDARD STACK GAS FLOW RATE (SCFH):	4648762.35
ISOKINETIC RATIO (%):	101.9336

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	306	0.32	0.565685	0.67	104	104	
2	304	0.39	0.6245	0.28	107	103	
3	319	0.35	0.591608	0.73	110	105	
4	314	0.42	0.648074	0.23	110	105	
5	303	0.61	0.781025	1.20	110	105	
6	304	0.59	0.768115	1.20	109	105	
7	315	0.53	0.728011	1.10	109	105	
8	306	0.59	0.768115	1.20	108	105	
9	319	0.62	0.787401	1.30	108	105	
10	302	0.68	0.824621	1.40	108	105	
11	330	0.79	0.888819	1.60	109	104	
12	321	0.83	0.911043	1.70	109	104	
13	313	0.39	0.6245	0.82	106	104	
14	316	0.45	0.67082	0.94	108	104	
15	322	0.51	0.714143	1.00	110	105	
16	326	0.59	0.768115	1.20	112	106	
17	310	0.57	0.754983	1.20	113	106	
18	308	0.71	0.842615	1.50	114	107	
19	304	0.65	0.806226	1.30	115	107	
20	318	0.59	0.768115	1.20	116	108	
21	305	0.62	0.787401	1.40	116	109	
22	327	0.83	0.911043	1.75	117	110	
23	315	0.79	0.888819	1.60	117	111	METER T.
24	305	0.71	0.842615	1.50	118	112	AVERAGE
	313		0.7611	1.1675	110.9583	106.0000	108.4792

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : RTO #2 Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	217.6
NOZZLE DIAMETER (INCH.) :	0.249	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.38
GAS METER VOL.(Cu.Ft.) :	37.238	PERCENT CO2 :	1.5
BAROMETRIC PRESSURE :	30.2	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000338	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.5400
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.2424
FRACTIONAL MOISTURE CONTENT (%):	0.2237
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.5236
STACK PRESSURE (inch Hg):	30.2279
STACK GAS VELOCITY (ft/sec.):	51.5398
ACTUAL STACK GAS FLOW RATE (ACFM):	139670.228
STANDARD STACK GAS FLOW RATE (SCFH):	4447073.06
ISOKINETIC RATIO (%):	106.8096

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	325	0.30	0.547723	0.58	86	75	
2	322	0.35	0.591608	0.68	86	75	
3	320	0.35	0.591608	0.68	87	85	
4	321	0.37	0.608276	0.71	87	85	
5	318	0.35	0.591608	0.68	90	86	
6	316	0.33	0.574456	0.64	92	86	
7	324	0.59	0.768115	1.10	93	87	
8	325	0.71	0.842615	1.40	94	87	
9	325	0.75	0.866025	1.50	95	87	
10	324	0.84	0.916515	1.60	95	87	
11	321	0.83	0.911043	1.60	95	87	
12	320	0.76	0.87178	1.50	95	87	
13	309	0.31	0.556776	0.59	94	88	
14	320	0.36	0.6	0.70	94	88	
15	316	0.34	0.583095	0.66	95	88	
16	323	0.33	0.574456	0.64	97	89	
17	321	0.35	0.591608	0.68	99	88	
18	321	0.60	0.774597	1.20	99	90	
19	319	0.60	0.774597	1.20	99	90	
20	323	0.75	0.866025	1.50	99	91	
21	323	0.80	0.894427	1.50	99	91	
22	316	0.76	0.87178	1.50	98	91	
23	317	0.73	0.8544	1.40	98	91	METER T.
24	319	0.70	0.83666	1.30	99	91	AVERAGE
	320.33333		0.7275	1.0642	94.3750	87.0833	90.7292

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : RTO #2 Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	168.2
NOZZLE DIAMETER (INCH.) :	0.249	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	38.274	PERCENT CO2 :	1.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000338	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.7831
VOLUME OF WATER VAPOR (STD. CU.FT.):	7.9172
FRACTIONAL MOISTURE CONTENT (%):	0.1812
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.9908
STACK PRESSURE (inch Hg):	30.1272
STACK GAS VELOCITY (ft/sec.):	52.6056
ACTUAL STACK GAS FLOW RATE (ACFM):	142558.543
STANDARD STACK GAS FLOW RATE (SCFH):	4771113.43
ISOKINETIC RATIO (%):	100.2355

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	320	0.32	0.565685	0.62	93	93	
2	319	0.34	0.583095	0.66	94	92	
3	322	0.37	0.608276	0.71	95	93	
4	318	0.36	0.6	0.70	97	93	
5	319	0.40	0.632456	0.77	98	94	
6	321	0.66	0.812404	1.30	98	94	
7	320	0.67	0.818535	1.30	100	94	
8	320	0.70	0.83666	1.30	101	94	
9	319	0.83	0.911043	1.60	101	95	
10	319	0.78	0.883176	1.50	102	96	
11	322	0.74	0.860233	1.40	103	96	
12	321	0.70	0.83666	1.30	104	96	
13	323	0.35	0.591608	0.68	106	97	
14	326	0.38	0.616441	0.73	108	98	
15	321	0.36	0.6	0.70	110	99	
16	320	0.36	0.6	0.70	111	99	
17	321	0.42	0.648074	0.81	110	100	
18	321	0.63	0.793725	1.20	109	100	
19	320	0.68	0.824621	1.30	109	100	
20	319	0.73	0.8544	1.40	110	102	
21	319	0.77	0.877496	1.50	110	102	
22	320	0.80	0.894427	1.50	108	101	
23	321	0.75	0.866025	1.40	106	101	METER T.
24	320	0.69	0.830662	1.30	106	101	AVERAGE
	320.45833		0.7477	1.0992	103.7083	97.0833	100.3958

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : RTO #2 Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	171.8
NOZZLE DIAMETER (INCH.) :	0.249	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.36
GAS METER VOL.(Cu.Ft.) :	38.679	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	91	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	45.16585	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000338	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 45.16585

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.5239
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.0866
FRACTIONAL MOISTURE CONTENT (%):	0.1854
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8951
STACK PRESSURE (inch Hg):	30.1265
STACK GAS VELOCITY (ft/sec.):	53.2670
ACTUAL STACK GAS FLOW RATE (ACFM):	144350.878
STANDARD STACK GAS FLOW RATE (SCFH):	4804060.92
ISOKINETIC RATIO (%):	98.8270

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	321	0.35	0.591608	0.68	103	103	
2	320	0.34	0.583095	0.66	104	104	
3	321	0.37	0.608276	0.71	106	104	
4	320	0.41	0.640312	0.79	108	104	
5	321	0.46	0.678233	0.89	110	105	
6	316	0.63	0.793725	1.20	112	108	
7	320	0.69	0.830662	1.30	114	110	
8	329	0.75	0.866025	1.40	116	111	
9	321	0.79	0.888819	1.50	118	112	
10	321	0.79	0.888819	1.50	109	111	
11	322	0.75	0.866025	1.40	109	110	
12	320	0.73	0.8544	1.40	109	110	
13	325	0.35	0.591608	0.68	111	108	
14	321	0.35	0.591608	0.68	112	108	
15	320	0.39	0.6245	0.75	113	109	
16	321	0.43	0.655744	0.83	113	109	
17	322	0.45	0.67082	0.87	114	110	
18	322	0.60	0.774597	1.20	115	110	
19	320	0.70	0.83666	1.30	116	110	
20	319	0.70	0.83666	1.30	116	110	
21	318	0.80	0.894427	1.50	116	110	
22	320	0.75	0.866025	1.40	117	110	
23	319	0.74	0.860233	1.40	118	110	METER T.
24	319	0.71	0.842615	1.40	118	110	AVERAGE
	320.75		0.7556	1.1142	112.3750	108.5833	110.4792

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #1 Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	222.3
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.03	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11
GAS METER VOL.(Cu.Ft.) :	31.686	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.2	PERCENT O2 :	19.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	30.1161
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.4637
FRACTIONAL MOISTURE CONTENT (%):	0.2579
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.1191
STACK PRESSURE (inch Hg):	29.3912
STACK GAS VELOCITY (ft/sec.):	83.1943
ACTUAL STACK GAS FLOW RATE (ACFM):	48025.3956
STANDARD STACK GAS FLOW RATE (SCFH):	1759666.84

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	170	1.20	1.095445	1.00	107	105	METER T.
2	170	1.60	1.264911	1.40	136	114	AVERAGE
3	171	2.00	1.414214	1.20	136	116	
4		2.10	1.449138				119.0000
5	170.33333	2.10	1.449138	1.2000	126.3333	111.6667	
6		2.10	1.449138				
7		2.00	1.414214				
8		1.70	1.30384				
9		1.50	1.224745				
10		0.61	0.781025				
11		0.56	0.748331				
12		0.80	0.894427				
13		1.90	1.378405				
14		1.70	1.30384				
15		1.90	1.378405				
16		2.70	1.643168				
17		2.20	1.48324				
18		2.20	1.48324				
19		2.10	1.449138				
20		2.00	1.414214				
21		1.80	1.341641				
22		1.50	1.224745				
23		1.20	1.095445				
24		1.00	1				
			1.2785				

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #1 Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	233.2
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.03	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	35.654	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.4892
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.9767
FRACTIONAL MOISTURE CONTENT (%):	0.2469
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.3448
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	83.2228
ACTUAL STACK GAS FLOW RATE (ACFM):	48041.8373
STANDARD STACK GAS FLOW RATE (SCFH):	1762199.3

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	175	1.70	1.30384	1.00	116	111
2	176	1.70	1.30384	1.00	138	117
3	177	1.90	1.378405	1.00	140	120
4		2.10	1.449138			
5	176	2.20	1.48324	1.0000	131.3333	116.0000
6		2.10	1.449138			
7		2.10	1.449138			
8		1.70	1.30384			
9		1.50	1.224745			
10		0.66	0.812404			
11		0.61	0.781025			
12		0.71	0.842615			
13		1.40	1.183216			
14		1.80	1.341641			
15		2.00	1.414214			
16		2.10	1.449138			
17		2.10	1.449138			
18		2.20	1.48324			
19		2.10	1.449138			
20		2.10	1.449138			
21		1.70	1.30384			
22		1.60	1.264911			
23		1.10	1.048809			METER T.
24		1.00	1			AVERAGE
			1.2757			123.6667

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #1 Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	191
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.03	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11
GAS METER VOL.(Cu.Ft.) :	28.322	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	26.5342
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.9904
FRACTIONAL MOISTURE CONTENT (%):	0.2531
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.2759
STACK PRESSURE (inch Hg):	29.2912
STACK GAS VELOCITY (ft/sec.):	86.9356
ACTUAL STACK GAS FLOW RATE (ACFM):	50185.1258
STANDARD STACK GAS FLOW RATE (SCFH):	1822182.92

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	177	1.30	1.140175	1.00	113	113
2	178	1.70	1.30384	1.00	139	120
3	179	1.90	1.378405	1.00	139	127
4		2.00	1.414214			
5	178	2.00	1.414214	1.0000	130.3333	120.0000
6		2.00	1.414214			
7		2.10	1.449138			
8		2.00	1.414214			
9		1.60	1.264911			
10		1.70	1.30384			
11		1.70	1.30384			
12		1.70	1.30384			
13		1.20	1.095445			
14		1.70	1.30384			
15		2.10	1.449138			
16		2.10	1.449138			
17		2.20	1.48324			
18		2.20	1.48324			
19		2.20	1.48324			
20		2.00	1.414214			
21		1.80	1.341641			
22		1.70	1.30384			
23		1.00	1			METER T.
24		1.00	1			AVERAGE
			1.3297			125.1667

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #2 Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	196.6
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0327	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	32.746	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.2	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	32.5168
VOLUME OF WATER VAPOR (STD. CU.FT.):	9.2540
FRACTIONAL MOISTURE CONTENT (%):	0.2215
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6565
STACK PRESSURE (inch Hg):	29.3544
STACK GAS VELOCITY (ft/sec.):	81.9220
ACTUAL STACK GAS FLOW RATE (ACFM):	47290.9202
STANDARD STACK GAS FLOW RATE (SCFH):	1853991.16

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	157	1.10	1.048809	1.00	95	95
2	158	1.60	1.264911	1.00	96	95
3	156	2.00	1.414214	1.00	96	95
4	158	2.10	1.449138	1.00	97	94
5	156	2.20	1.48324	1.00	97	93
6	155	2.00	1.414214	1.00	97	93
7	159	2.00	1.414214	1.00	97	94
8	158	2.00	1.414214	1.00	97	94
9	157	1.90	1.378405	1.00	97	94
10	162	1.50	1.224745	1.00	97	94
11	155	1.00	1	1.00	97	94
12	155	0.62	0.787401	1.00	97	94
13		1.20	1.095445			
14	157.16667	1.70	1.30384	1.0000	96.6667	94.0833
15		2.00	1.414214			
16		2.10	1.449138			
17		2.10	1.449138			
18		2.10	1.449138			
19		2.10	1.449138			
20		2.00	1.414214			
21		2.00	1.414214			
22		1.80	1.341641			
23		1.00	1			METER T.
24		0.57	0.754983			AVERAGE
			1.2845			95.3750

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #2 Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	115.5
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0327	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	22.388	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	22.1264
VOLUME OF WATER VAPOR (STD. CU.FT.):	5.4366
FRACTIONAL MOISTURE CONTENT (%):	0.1972
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1000
MOLECULAR WT. OF STACK GAS (WET BASE):	26.9106
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	84.9464
ACTUAL STACK GAS FLOW RATE (ACFM):	49036.7997
STANDARD STACK GAS FLOW RATE (SCFH):	1916182.64

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	175	1.10	1.048809	1.00	94	94	
2	177	1.70	1.30384	1.00	94	93	
3	176	2.00	1.414214	1.00	95	94	
4	176	2.20	1.48324	0.89	96	94	
5	177	2.20	1.48324	0.75	96	95	
6	175	2.20	1.48324	0.63	97	95	
7	175	2.20	1.48324	0.40	97	95	
8	178	2.10	1.449138	0.23	97	96	
9	177	2.00	1.414214	0.31	97	96	
10	176	1.60	1.264911	0.46	97	96	
11	177	1.40	1.183216	0.43	97	97	
12	177	0.70	0.83666	0.49	97	97	
13		1.20	1.095445				
14	176.33333	1.80	1.341641	0.6325	96.1667	95.1667	
15		2.00	1.414214				
16		2.20	1.48324				
17		2.20	1.48324				
18		2.20	1.48324				
19		2.10	1.449138				
20		2.00	1.414214				
21		1.90	1.378405				
22		1.70	1.30384				
23		1.20	1.095445				METER T.
24		0.62	0.787401				AVERAGE
			1.3157				95.6667

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #2 Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	95.8
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0327	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11
GAS METER VOL.(Cu.Ft.) :	12.587	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	12.4009
VOLUME OF WATER VAPOR (STD. CU.FT.):	4.5093
FRACTIONAL MOISTURE CONTENT (%):	0.2667
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.1547
STACK PRESSURE (inch Hg):	29.2912
STACK GAS VELOCITY (ft/sec.):	87.5563
ACTUAL STACK GAS FLOW RATE (ACFM):	50543.441
STANDARD STACK GAS FLOW RATE (SCFH):	1799222.95

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	180	1.20	1.095445	1.00	96	96
2	179	1.60	1.264911	1.00	96	96
3	178	2.10	1.449138	0.73	97	96
4	179	2.20	1.48324	0.40	97	96
5	180	2.20	1.48324	0.29	97	96
6	180	2.10	1.449138	0.22	97	96
7	178	2.20	1.48324	0.15	97	97
8	179	2.00	1.414214	0.12	98	97
9	178	2.00	1.414214	0.11	98	98
10	177	1.60	1.264911	0.10	98	98
11	179	1.30	1.140175	0.08	98	98
12	180	0.73	0.8544	0.08	98	98
13		1.20	1.095445			
14	178.91667	1.80	1.341641	0.3567	97.2500	96.8333
15		2.00	1.414214			
16		2.30	1.516575			
17		2.20	1.48324			
18		2.10	1.449138			
19		2.10	1.449138			
20		2.00	1.414214			
21		1.80	1.341641			
22		1.80	1.341641			
23		1.70	1.30384			METER T.
24		1.20	1.095445			AVERAGE
			1.3351			97.0417

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #3 Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	230.2
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-12
GAS METER VOL.(Cu.Ft.) :	31.269	PERCENT CO2 :	3
BAROMETRIC PRESSURE :	30.2	PERCENT O2 :	17
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	30.7325
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.8355
FRACTIONAL MOISTURE CONTENT (%):	0.2607
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1600
MOLECULAR WT. OF STACK GAS (WET BASE):	26.2509
STACK PRESSURE (inch Hg):	29.3176
STACK GAS VELOCITY (ft/sec.):	81.2751
ACTUAL STACK GAS FLOW RATE (ACFM):	46917.4859
STANDARD STACK GAS FLOW RATE (SCFH):	1684439.33

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	176	0.82	0.905539	1.00	83	83
2	178	1.20	1.095445	1.00	86	83
3	178	1.70	1.30384	1.00	88	84
4	181	2.10	1.449138	0.40	88	84
5	179	2.10	1.449138	1.00	96	89
6	177	2.10	1.449138	1.00	95	87
7	181	2.00	1.414214	1.00	95	87
8	180	2.20	1.48324	1.00	95	87
9	180	1.90	1.378405	1.00	96	88
10	182	1.40	1.183216	1.00	96	89
11	180	1.10	1.048809	1.00	96	89
12	179	0.51	0.714143	1.00	96	90
13		0.84	0.916515			
14	179.25	1.10	1.048809	0.9500	92.5000	86.6667
15		1.80	1.341641			
16		2.00	1.414214			
17		2.10	1.449138			
18		2.20	1.48324			
19		2.20	1.48324			
20		2.20	1.48324			
21		2.00	1.414214			
22		1.50	1.224745			
23		1.00	1			METER T.
24		0.45	0.67082			AVERAGE
			1.2418			89.5833

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #3 Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	252.4
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.2
GAS METER VOL.(Cu.Ft.) :	33.241	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	32.2976
VOLUME OF WATER VAPOR (STD. CU.FT.):	11.8805
FRACTIONAL MOISTURE CONTENT (%):	0.2689
DRY BASE:	80.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0200
MOLECULAR WT. OF STACK GAS (WET BASE):	26.0565
STACK PRESSURE (inch Hg):	29.2765
STACK GAS VELOCITY (ft/sec.):	81.9084
ACTUAL STACK GAS FLOW RATE (ACFM):	47283.0859
STANDARD STACK GAS FLOW RATE (SCFH):	1681298.83

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	175	0.85	0.921954	1.00	88	89	
2	177	1.30	1.140175	1.00	90	89	
3	176	1.60	1.264911	1.00	93	89	
4	177	2.10	1.449138	1.00	96	90	
5	178	2.10	1.449138	1.00	97	90	
6	175	2.20	1.48324	1.00	98	91	
7	173	2.00	1.414214	1.00	99	91	
8	175	2.20	1.48324	1.00	100	91	
9	178	1.90	1.378405	1.00	101	92	
10	181	1.40	1.183216	1.00	101	93	
11	181	1.00	1	1.00	101	95	
12	182	0.52	0.72111	0.66	100	95	
13		0.86	0.927362				
14	177.33333	1.20	1.095445	0.9717	97.0000	91.2500	
15		1.90	1.378405				
16		2.00	1.414214				
17		2.10	1.449138				
18		2.10	1.449138				
19		2.10	1.449138				
20		2.20	1.48324				
21		2.20	1.48324				
22		1.60	1.264911				
23		0.99	0.994987				METER T.
24		0.45	0.67082				AVERAGE
			1.2479				94.1250

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #3 Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	219.6
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	34.626	PERCENT CO2 :	3
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	17
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.4719
VOLUME OF WATER VAPOR (STD. CU.FT.):	10.3366
FRACTIONAL MOISTURE CONTENT (%):	0.2359
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1600
MOLECULAR WT. OF STACK GAS (WET BASE):	26.5268
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	81.1459
ACTUAL STACK GAS FLOW RATE (ACFM):	46842.906
STANDARD STACK GAS FLOW RATE (SCFH):	1742193.69

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	171	0.85	0.921954	1.00	92	92
2	172	1.30	1.140175	1.00	94	92
3	175	1.60	1.264911	1.00	98	92
4	177	2.10	1.449138	1.00	100	93
5	178	2.10	1.449138	1.00	101	93
6	171	2.20	1.48324	1.00	101	94
7	175	2.00	1.414214	1.00	101	94
8	179	2.20	1.48324	1.00	102	94
9	179	1.90	1.378405	1.00	103	95
10	181	1.40	1.183216	1.00	103	95
11	179	1.00	1	1.00	103	96
12	179	0.52	0.72111	1.00	104	96
13		0.86	0.927362			
14	176.33333	1.20	1.095445	1.0000	100.1667	93.8333
15		1.90	1.378405			
16		2.00	1.414214			
17		2.10	1.449138			
18		2.10	1.449138			
19		2.10	1.449138			
20		2.20	1.48324			
21		2.20	1.48324			
22		1.60	1.264911			
23		0.99	0.994987			METER T.
24		0.45	0.67082			AVERAGE
			1.2479			97.0000

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #5 Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	151.4
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	28.679	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.2	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	27.9301
VOLUME OF WATER VAPOR (STD. CU.FT.):	7.1264
FRACTIONAL MOISTURE CONTENT (%):	0.2033
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.8276
STACK PRESSURE (inch Hg):	29.3544
STACK GAS VELOCITY (ft/sec.):	80.2496
ACTUAL STACK GAS FLOW RATE (ACFM):	46325.4723
STANDARD STACK GAS FLOW RATE (SCFH):	1793358.1

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	172	1.20	1.095445	1.00	89	89
2	176	1.70	1.30384	1.00	94	89
3	180	1.90	1.378405	1.00	95	90
4	181	2.00	1.414214	1.00	96	91
5	182	2.00	1.414214	1.00	97	91
6	180	1.90	1.378405	1.00	97	92
7	180	1.70	1.30384	1.00	97	92
8	180	1.60	1.264911	1.00	98	93
9	182	1.50	1.224745	1.00	99	93
10	181	1.50	1.224745	1.00	99	93
11	181	1.20	1.095445	1.00	100	94
12	181	0.72	0.848528	1.00	100	94
13		0.89	0.943398			
14	179.66667	1.40	1.183216	1.0000	96.7500	91.7500
15		1.80	1.341641			
16		1.90	1.378405			
17		1.90	1.378405			
18		1.80	1.341641			
19		1.90	1.378405			
20		2.00	1.414214			
21		1.70	1.30384			
22		1.40	1.183216			
23		1.10	1.048809			METER T.
24		0.84	0.916515			AVERAGE
			1.2399			94.2500

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #5 Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	178.8
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-11.5
GAS METER VOL.(Cu.Ft.) :	29.983	PERCENT CO2 :	2.5
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	29.0163
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.4161
FRACTIONAL MOISTURE CONTENT (%):	0.2248
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.1400
MOLECULAR WT. OF STACK GAS (WET BASE):	26.6353
STACK PRESSURE (inch Hg):	29.2544
STACK GAS VELOCITY (ft/sec.):	81.2676
ACTUAL STACK GAS FLOW RATE (ACFM):	46913.1291
STANDARD STACK GAS FLOW RATE (SCFH):	1766484.79

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	177	1.10	1.048809	1.00	92	89
2	176	1.70	1.30384	1.00	97	89
3	176	1.80	1.341641	1.00	99	89
4	179	1.90	1.378405	1.00	100	90
5	178	2.00	1.414214	1.00	101	90
6	178	2.00	1.414214	1.00	102	91
7	177	1.80	1.341641	1.00	102	91
8	178	1.70	1.30384	1.00	102	91
9	177	1.60	1.264911	1.00	103	92
10	179	1.40	1.183216	1.00	103	93
11	179	1.50	1.224745	1.00	103	95
12	178	1.30	1.140175	1.00	103	95
13		0.78	0.883176			
14	177.66667	0.90	0.948683	1.0000	100.5833	91.2500
15		1.30	1.140175			
16		1.70	1.30384			
17		1.90	1.378405			
18		1.90	1.378405			
19		1.80	1.341641			
20		1.90	1.378405			
21		2.00	1.414214			
22		1.60	1.264911			
23		1.40	1.183216			METER T.
24		1.10	1.048809			AVERAGE
			1.2510			95.9167

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 12-Jul-95
PLACE : Dryer #5 Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	188.1
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-12
GAS METER VOL.(Cu.Ft.) :	30.604	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	42	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	9.621128	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 9.621128

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	29.4145
VOLUME OF WATER VAPOR (STD. CU.FT.):	8.8539
FRACTIONAL MOISTURE CONTENT (%):	0.2314
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	26.5165
STACK PRESSURE (inch Hg):	29.2176
STACK GAS VELOCITY (ft/sec.):	82.1645
ACTUAL STACK GAS FLOW RATE (ACFM):	47430.9152
STANDARD STACK GAS FLOW RATE (SCFH):	1755865.83

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	184	1.20	1.095445	1.00	95	95	
2	182	1.70	1.30384	1.00	99	95	
3	183	1.90	1.378405	1.00	101	96	
4	186	1.90	1.378405	1.00	101	97	
5	183	2.00	1.414214	1.00	101	97	
6	183	2.00	1.414214	1.00	103	97	
7	182	1.90	1.378405	1.00	103	98	
8	183	1.80	1.341641	1.00	104	98	
9	182	1.60	1.264911	1.00	104	98	
10	181	1.30	1.140175	1.00	105	99	
11	180	1.40	1.183216	1.00	105	99	
12	179	1.30	1.140175	1.00	105	99	
13		0.81	0.9				
14	182.33333	0.92	0.959166	1.0000	102.1667	97.3333	
15		1.30	1.140175				
16		1.70	1.30384				
17		1.90	1.378405				
18		1.90	1.378405				
19		2.00	1.414214				
20		1.80	1.341641				
21		1.90	1.378405				
22		1.80	1.341641				
23		1.30	1.140175				METER T.
24		1.10	1.048809				AVERAGE
			1.2566				99.7500

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	39.5
NOZZLE DIAMETER (INCH.) :	0.249	PARTICULATE WEIGHT (Front half mg)	10.33
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg)	13.38
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	0.36
GAS METER VOL.(Cu.Ft.) :	43.779	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(Inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000338	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	41.3382
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8593
FRACTIONAL MOISTURE CONTENT (%):	0.0430
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5648
STACK PRESSURE (inch Hg):	30.1265
STACK GAS VELOCITY (ft/sec.):	52.1093
ACTUAL STACK GAS FLOW RATE (ACFM):	139666.044
STANDARD STACK GAS FLOW RATE (SCFH):	5656563.56

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0039
PARTICULATE CONCENTRATION (LBS/SCF):	5.51E-07
PARTICULATE EMISSION (LBS/HR):	3.1168

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0050
PARTICULATE CONCENTRATION (LBS/SCF):	7.14E-07
PARTICULATE EMISSION (LBS/HR):	4.0371
ISOKINETIC RATIO (%):	96.5968

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	280	0.40	0.632456	0.86	89	88	
2	288	0.42	0.648074	0.90	90	89	
3	289	0.48	0.69282	1.00	92	90	
4	291	0.56	0.748331	1.20	93	90	
5	290	0.60	0.774597	1.30	93	90	
6	292	0.65	0.806226	1.40	94	91	
7	295	0.67	0.818535	1.40	95	92	
8	296	0.75	0.866025	1.60	96	92	
9	300	0.73	0.8544	1.50	97	92	
10	301	0.72	0.848528	1.50	97	92	
11	301	0.72	0.848528	1.50	99	92	
12	300	0.66	0.812404	1.40	100	92	
13	299	0.39	0.6245	0.84	100	93	
14	297	0.50	0.707107	1.10	100	93	
15	296	0.50	0.707107	1.10	100	93	
16	297	0.51	0.714143	1.10	101	93	
17	297	0.53	0.728011	1.10	101	93	
18	297	0.59	0.768115	1.30	101	93	
19	298	0.70	0.83666	1.50	101	93	
20	299	0.73	0.8544	1.60	101	94	
21	285	0.76	0.87178	1.60	101	94	
22	286	0.76	0.87178	1.60	102	95	
23	287	0.65	0.806226	1.40	103	96	METER T.
24	288	0.59	0.768115	1.30	104	96	AVERAGE
	293.70833		0.7754	1.2958	97.9167	92.3333	95.1250

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	44.2
NOZZLE DIAMETER (INCH.) :	0.249	PARTICULATE WEIGHT (Front half mg)	7.39
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg)	8.1
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	41.774	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000338	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	39.0698
VOLUME OF WATER VAPOR (STD. CU.FT.):	2.0805
FRACTIONAL MOISTURE CONTENT (%):	0.0506
DRY BASE:	80.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4818
STACK PRESSURE (Inch Hg):	30.1272
STACK GAS VELOCITY (ft/sec.):	52.4298
ACTUAL STACK GAS FLOW RATE (ACFM):	140525.038
STANDARD STACK GAS FLOW RATE (SCFH):	5542002.61

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0029
PARTICULATE CONCENTRATION (LBS/SCF):	4.17E-07
PARTICULATE EMISSION (LBS/HR):	2.3114

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0032
PARTICULATE CONCENTRATION (LBS/SCF):	4.57E-07
PARTICULATE EMISSION (LBS/HR):	2.5335
ISOKINETIC RATIO (%):	93.1834

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	310	0.39	0.6245	0.84	94	94	
2	310	0.42	0.648074	0.90	96	95	
3	311	0.50	0.707107	1.10	96	95	
4	311	0.48	0.69282	1.00	97	96	
5	311	0.56	0.748331	1.20	97	96	
6	312	0.66	0.812404	1.40	97	96	
7	310	0.79	0.888819	1.70	99	97	
8	310	0.75	0.866025	1.60	99	97	
9	308	0.71	0.842615	1.50	100	97	
10	309	0.66	0.812404	1.40	100	97	
11	306	0.65	0.806226	1.40	102	97	
12	308	0.59	0.768115	1.40	104	97	
13	306	0.60	0.774597	1.30	106	98	
14	307	0.42	0.648074	0.90	107	99	
15	311	0.46	0.678233	0.99	108	99	
16	305	0.51	0.714143	1.10	109	100	
17	304	0.53	0.728011	1.10	108	99	
18	303	0.60	0.774597	1.30	108	99	
19	306	0.65	0.806226	1.40	108	99	
20	307	0.70	0.83666	1.50	109	99	
21	306	0.75	0.866025	1.60	109	99	
22	307	0.75	0.866025	1.60	109	99	
23	306	0.68	0.824621	1.50	109	99	METER T.
24	307	0.62	0.787401	1.40	109	99	AVERAGE
	307.95833		0.7718	1.2971	103.3333	97.5833	100.4583

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	37.6
NOZZLE DIAMETER (INCH.) :	0.249	PARTICULATE WEIGHT (Front half mg)	12.8
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg)	2.89
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	0.56
GAS METER VOL.(Cu.Ft.) :	37.857	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000338	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.0737
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.7698
FRACTIONAL MOISTURE CONTENT (%):	0.0480
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5478
STACK PRESSURE (Inch Hg):	30.1412
STACK GAS VELOCITY (ft/sec.):	47.9068
ACTUAL STACK GAS FLOW RATE (ACFM):	128402.481
STANDARD STACK GAS FLOW RATE (SCFH):	5147022.64

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0056
PARTICULATE CONCENTRATION (LBS/SCF):	8.05E-07
PARTICULATE EMISSION (LBS/HR):	4.1418

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0013
PARTICULATE CONCENTRATION (LBS/SCF):	1.82E-07
PARTICULATE EMISSION (LBS/HR):	0.9351
ISOKINETIC RATIO (%):	90.0720

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	295	0.48	0.69282	1.00	99	99	
2	300	0.58	0.761577	1.20	101	98	
3	311	0.63	0.793725	1.30	103	98	
4	307	0.65	0.806226	1.40	104	98	
5	296	0.65	0.806226	1.40	107	98	
6	298	0.65	0.806226	1.40	108	99	
7	330	0.48	0.69282	1.00	110	99	
8	311	0.40	0.632456	0.86	111	99	
9	301	0.40	0.632456	0.86	111	100	
10	298	0.40	0.632456	0.86	112	101	
11	290	0.41	0.640312	0.88	112	101	
12	291	0.39	0.6245	0.83	112	101	
13	290	0.38	0.616441	0.81	107	102	
14	295	0.43	0.655744	0.92	111	102	
15	288	0.51	0.714143	1.00	112	102	
16	292	0.55	0.74162	1.10	113	102	
17	298	0.56	0.748331	1.20	113	103	
18	291	0.65	0.806226	1.40	114	103	
19	298	0.59	0.768115	1.20	114	103	
20	301	0.55	0.74162	1.10	113	103	
21	300	0.54	0.734847	1.10	113	103	
22	292	0.50	0.707107	1.00	113	103	
23	289	0.44	0.663325	0.94	113	103	METER T.
24	288	0.41	0.640312	0.88	113	103	AVERAGE
	297.91667		0.7108	1.0683	109.9583	100.9583	105.4583

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust, MDI Train
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	34.4
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.36
GAS METER VOL.(Cu.Ft.) :	35.396	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.8195
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.6192
FRACTIONAL MOISTURE CONTENT (%):	0.0444

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1				1.00	88	88	
2				1.00	92	89	
3				1.00	95	89	
4				1.00	97	91	
5				1.00	98	91	
6				1.00	99	91	
7				1.00	99	92	
8				1.00	100	93	
9				1.00	101	93	
10				1.00	101	94	METER T.
11				1.00	101	94	AVERAGE
12				1.00	102	95	
13							94.7083
14				1.0000	97.7500	91.6667	

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust, MDI Train
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	39.4
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	35.034	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.1784
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8546
FRACTIONAL MOISTURE CONTENT (%):	0.0515

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1				1.00	93	93	
2				1.00	97	93	
3				1.00	100	93	
4				1.00	101	94	
5				1.00	103	95	
6				1.00	104	96	
7				1.00	105	98	
8				1.00	105	98	
9				1.00	105	98	
10				1.00	105	98	METER T.
11				1.00	106	99	AVERAGE
12				1.00	106	99	
13							99.3333
14				1.0000	102.5000	96.1667	
15							

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust, MDI Train
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	41
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.56
GAS METER VOL.(Cu.Ft.) :	35.311	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.1889
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.9299
FRACTIONAL MOISTURE CONTENT (%):	0.0534

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
				1.00	98	98	
				1.00	101	98	
				1.00	104	98	
				1.00	106	98	
				1.00	107	99	
				1.00	108	100	
				1.00	109	101	
				1.00	110	102	
				1.00	110	102	
				1.00	110	103	METER T.
				1.00	109	103	AVERAGE
				1.00	109	103	
							103.5833
				1.0000	106.7500	100.4167	

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO North Inlet
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	31.6
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg)	32.76
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg)	27.21
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.1
GAS METER VOL.(Cu.Ft.) :	39.386	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	39.5
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	48.5
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	13.30382

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	38.3025
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.4874
FRACTIONAL MOISTURE CONTENT (%):	0.0374
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4348
STACK PRESSURE (inch Hg):	30.0191
STACK GAS VELOCITY (ft/sec.):	66.2809
ACTUAL STACK GAS FLOW RATE (ACFM):	52907.3503
STANDARD STACK GAS FLOW RATE (SCFH):	2697053.87

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0132
PARTICULATE CONCENTRATION (LBS/SCF):	1.89E-06
PARTICULATE EMISSION (LBS/HR):	5.0865

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0110
PARTICULATE CONCENTRATION (LBS/SCF):	1.57E-06
PARTICULATE EMISSION (LBS/HR):	4.2247
ISOKINETIC RATIO (%):	102.3799

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	132	0.89	0.943398	0.91	95	95	
2	139	1.40	1.183216	1.40	89	86	
3	135	1.60	1.264911	1.60	93	87	
4	135	1.70	1.30384	1.80	95	87	
5	136	1.70	1.30384	1.80	96	87	
6	142	0.97	0.984886	1.00	97	88	
7	140	1.20	1.095445	1.20	97	88	
8	140	1.40	1.183216	1.40	97	88	
9	139	1.60	1.264911	1.60	98	89	
10	142	1.60	1.264911	1.60	99	89	
11	142	1.50	1.224745	1.50	99	89	
12	141	0.86	0.927362	0.88	99	90	
13	142	0.80	0.894427	0.82	100	90	
14	142	0.92	0.959166	0.95	100	90	
15	141	1.30	1.140175	1.30	100	90	
16	142	1.60	1.264911	1.60	100	91	
17	142	1.20	1.095445	1.20	100	91	
18	142	0.83	0.911043	0.86	100	91	
19	142	0.93	0.964365	0.96	100	91	
20	141	1.10	1.048809	1.10	100	92	
21	142	1.20	1.095445	1.20	100	92	
22	142	1.20	1.095445	1.20	100	92	
23	142	1.10	1.048809	1.10	100	92	METER T.
24	142	0.91	0.953939	0.94	101	92	AVERAGE
	140.20833		1.1007	1.2467	98.1250	89.8750	94.0000

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO North Inlet
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	31.3
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg)	53.21
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg)	12.54
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.1
GAS METER VOL.(Cu.Ft.) :	39.168	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (Inch):		STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	37.8812
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.4733
FRACTIONAL MOISTURE CONTENT (%):	0.0374
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4342
STACK PRESSURE (inch Hg):	30.0191
STACK GAS VELOCITY (ft/sec.):	66.3292
ACTUAL STACK GAS FLOW RATE (ACFM):	52945.916
STANDARD STACK GAS FLOW RATE (SCFH):	2686742.81

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0217
PARTICULATE CONCENTRATION (LBS/SCF):	3.10E-06
PARTICULATE EMISSION (LBS/HR):	8.3216

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0051
PARTICULATE CONCENTRATION (LBS/SCF):	7.30E-07
PARTICULATE EMISSION (LBS/HR):	1.9611
ISOKINETIC RATIO (%):	101.6424

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	142	0.92	0.959166	0.95	90	91	
2	142	1.30	1.140175	1.30	92	91	
3	142	1.70	1.30384	1.80	92	91	
4	140	1.60	1.264911	1.60	96	90	
5	138	1.70	1.30384	1.80	97	90	
6	139	0.98	0.989949	1.00	98	91	
7	141	1.10	1.048809	1.10	100	92	
8	142	1.40	1.183216	1.40	100	92	
9	140	1.70	1.30384	1.80	101	92	
10	143	1.60	1.264911	1.60	101	93	
11	144	1.50	1.224745	1.50	102	94	
12	142	0.87	0.932738	0.90	103	94	
13	140	0.83	0.911043	0.86	103	94	
14	142	0.90	0.948683	0.93	103	94	
15	143	1.30	1.140175	1.30	103	95	
16	144	1.60	1.264911	1.60	103	95	
17	145	1.20	1.095445	1.20	103	95	
18	147	0.87	0.932738	0.90	104	95	
19	142	0.95	0.974679	0.98	104	95	
20	146	1.00	1	1.00	104	96	
21	145	1.20	1.095445	1.20	104	96	
22	148	1.20	1.095445	1.20	104	96	
23	147	1.10	1.048809	1.10	104	96	METER T.
24	146	0.90	0.948683	0.93	104	96	AVERAGE
	142.91667		1.0990	1.2479	100.6250	93.5000	97.0625

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO North Inlet
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	32.6
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg)	27.84
METER COEFFICIENT (Y) :	1.0116	PARTICULATE WEIGHT (Back half mg)	31.37
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.2
GAS METER VOL.(Cu.Ft.) :	39.122	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	37.6331
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.5345
FRACTIONAL MOISTURE CONTENT (%):	0.0392
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4153
STACK PRESSURE (inch Hg):	30.0118
STACK GAS VELOCITY (ft/sec.):	67.0806
ACTUAL STACK GAS FLOW RATE (ACFM):	53545.6702
STANDARD STACK GAS FLOW RATE (SCFH):	2697431.06

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0114
PARTICULATE CONCENTRATION (LBS/SCF):	1.63E-06
PARTICULATE EMISSION (LBS/HR):	4.4001

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0129
PARTICULATE CONCENTRATION (LBS/SCF):	1.84E-06
PARTICULATE EMISSION (LBS/HR):	4.9580
ISOKINETIC RATIO (%):	100.5767

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	140	0.92	0.959166	0.95	94	95	
2	147	1.40	1.183216	1.40	96	95	
3	149	1.60	1.264911	1.60	97	94	
4	142	1.50	1.224745	1.50	98	95	
5	147	1.70	1.30384	1.80	100	95	
6	149	0.95	0.974679	0.98	101	95	
7	147	1.10	1.048809	1.10	102	96	
8	142	1.40	1.183216	1.40	103	96	
9	149	1.80	1.341641	1.90	104	96	
10	149	1.60	1.264911	1.60	104	96	
11	147	1.50	1.224745	1.50	105	97	
12	144	0.84	0.916515	0.87	105	97	
13	148	0.80	0.894427	0.82	106	97	
14	149	0.90	0.948683	0.92	104	98	
15	149	1.40	1.183216	1.40	104	98	
16	147	1.70	1.30384	1.80	107	98	
17	146	1.40	1.183216	1.40	107	99	
18	144	0.87	0.932738	0.90	106	99	
19	142	0.95	0.974679	0.98	106	99	
20	147	1.10	1.048809	1.10	106	99	
21	149	1.30	1.140175	1.30	106	99	
22	149	1.20	1.095445	1.20	106	99	
23	144	1.10	1.048809	1.10	105	98	METER T.
24	140	0.90	0.948683	0.92	105	98	AVERAGE
	146.08333		1.1080	1.2683	103.2083	97.0000	100.1042

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO South Inlet
RUN# : 1

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	22.9
NOZZLE DIAMETER (INCH.) :	0.1788	PARTICULATE WEIGHT (Front half mg)	27
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg)	14.34
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (In. H2O) :	-1.4
GAS METER VOL.(Cu.Ft.) :	42.945	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	0	STACK LENGTH(inchs) :	39.5
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	48.5
NOZZLE AREA (feet):	0.000174	STACK AREA (Sq.Ft.) :	13.30382

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	41.4429
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.0779
FRACTIONAL MOISTURE CONTENT (%):	0.0254
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5652
STACK PRESSURE (Inch Hg):	29.9971
STACK GAS VELOCITY (ft/sec.):	70.5068
ACTUAL STACK GAS FLOW RATE (ACFM):	56280.56
STANDARD STACK GAS FLOW RATE (SCFH):	2969525.73

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0101
PARTICULATE CONCENTRATION (LBS/SCF):	1.44E-06
PARTICULATE EMISSION (LBS/HR):	4.2659

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0053
PARTICULATE CONCENTRATION (LBS/SCF):	7.63E-07
PARTICULATE EMISSION (LBS/HR):	2.2657

ISOKINETIC RATIO (%): 106.5468

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	128	0.97	0.984886	2.70	94	92	
2	128	1.40	1.183216	2.50	96	92	
3	128	1.40	1.183216	2.40	98	93	
4	127	1.30	1.140175	2.20	99	93	
5	127	1.20	1.095445	2.10	100	94	
6	126	0.60	0.774597	1.95	100	94	
7	127	1.30	1.140175	1.80	101	94	
8	126	1.60	1.264911	1.70	101	95	
9	126	1.70	1.30384	1.70	101	95	
10	126	1.60	1.264911	1.60	102	95	
11	127	1.50	1.224745	1.50	102	96	
12	127	0.90	0.948683	1.40	102	96	
13	127	1.40	1.183216	1.30	102	97	
14	127	1.80	1.341641	1.20	102	96	
15	128	2.00	1.414214	1.10	102	97	
16	129	2.00	1.414214	1.10	102	97	
17	128	1.90	1.378405	1.00	102	97	
18	125	1.10	1.048809	0.88	103	97	
19	124	1.40	1.183216	0.95	102	97	
20	125	1.70	1.30384	1.10	103	97	
21	125	1.70	1.30384	1.50	103	97	
22	126	1.60	1.264911	1.60	103	97	
23	127	1.40	1.183216	1.70	104	98	METER T.
24	127	0.90	0.948683	2.60	104	98	AVERAGE
	126.70833		1.1865	1.6492	101.1667	95.5833	98.3750

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO South Inlet
RUN# : 2

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	19.3
NOZZLE DIAMETER (INCH.) :	0.1788	PARTICULATE WEIGHT (Front half mg)	16.49
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg)	5.4
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.3
GAS METER VOL.(Cu.Ft.) :	38.962	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	0	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(Inches) :	
NOZZLE AREA (feet):	0.000174	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	37.4388
VOLUME OF WATER VAPOR (STD. CU.FT.):	0.9085
FRACTIONAL MOISTURE CONTENT (%):	0.0237
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5832
STACK PRESSURE (inch Hg):	30.0044
STACK GAS VELOCITY (ft/sec.):	67.9999
ACTUAL STACK GAS FLOW RATE (ACFM):	54279.4932
STANDARD STACK GAS FLOW RATE (SCFH):	2865657.69

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0068
PARTICULATE CONCENTRATION (LBS/SCF):	9.71E-07
PARTICULATE EMISSION (LBS/HR):	2.7831

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0022
PARTICULATE CONCENTRATION (LBS/SCF):	3.18E-07
PARTICULATE EMISSION (LBS/HR):	0.9114
ISOKINETIC RATIO (%):	99.7413

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	124	1.20	1.095445	1.10	94	94	
2	126	1.30	1.140175	1.20	98	95	
3	127	1.30	1.140175	1.20	99	95	
4	128	1.30	1.140175	1.20	100	95	
5	130	1.10	1.048809	1.00	101	96	
6	129	0.65	0.806226	0.60	102	96	
7	127	1.40	1.183216	1.30	103	96	
8	131	1.60	1.264911	1.50	103	97	
9	128	1.60	1.264911	1.50	103	97	
10	125	1.50	1.224745	1.40	104	98	
11	127	1.40	1.183216	1.30	104	98	
12	124	0.94	0.969536	0.87	104	98	
13	126	1.30	1.140175	1.20	104	98	
14	128	1.50	1.224745	1.40	104	98	
15	130	1.60	1.264911	1.50	104	98	
16	131	1.50	1.224745	1.40	104	99	
17	128	1.40	1.183216	1.30	104	99	
18	126	1.10	1.048809	1.00	104	99	
19	124	1.20	1.095445	1.10	104	99	
20	127	1.50	1.224745	1.40	105	99	
21	129	1.50	1.224745	1.40	105	99	
22	130	1.50	1.224745	1.40	105	99	
23	129	1.30	1.140175	1.20	105	99	METER T.
24	126	1.00	1	0.92	105	100	AVERAGE
	127.5		1.1441	1.2246	102.8333	97.5417	100.1875

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO South Inlet
RUN# : 3

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	27.6
NOZZLE DIAMETER (INCH.) :	0.1788	PARTICULATE WEIGHT (Front half mg)	25.05
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg)	20.83
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.5
GAS METER VOL.(Cu.Ft.) :	41.235	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	0	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000174	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	39.4477
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.2991
FRACTIONAL MOISTURE CONTENT (%):	0.0319
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4944
STACK PRESSURE (inch Hg):	29.9897
STACK GAS VELOCITY (ft/sec.):	72.1133
ACTUAL STACK GAS FLOW RATE (ACFM):	57562.9165
STANDARD STACK GAS FLOW RATE (SCFH):	3010530.27

PARTICULATE

FRONT HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0098
PARTICULATE CONCENTRATION (LBS/SCF):	1.40E-06
PARTICULATE EMISSION (LBS/HR):	4.2154

BACK HALF

PARTICULATE CONCENTRATION (GR./SCF):	0.0081
PARTICULATE CONCENTRATION (LBS/SCF):	1.16E-06
PARTICULATE EMISSION (LBS/HR):	3.5053
ISOKINETIC RATIO (%):	100.0361

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	123	1.20	1.095445	1.10	97	97	
2	126	1.60	1.264911	1.50	101	97	
3	127	1.60	1.264911	1.50	102	98	
4	128	1.50	1.224745	1.40	104	98	
5	130	1.10	1.048809	1.00	104	98	
6	129	0.75	0.866025	0.70	105	99	
7	126	1.60	1.264911	1.50	104	99	
8	128	1.80	1.341641	1.70	105	99	
9	130	1.70	1.30384	1.60	106	99	
10	131	1.60	1.264911	1.50	106	100	
11	129	1.50	1.224745	1.40	107	100	
12	127	1.20	1.095445	1.10	107	100	
13	126	1.50	1.224745	1.40	107	101	
14	128	1.80	1.341641	1.70	107	101	
15	130	1.90	1.378405	1.80	107	101	
16	130	1.80	1.341641	1.70	107	101	
17	129	1.70	1.30384	1.60	108	101	
18	126	1.40	1.183216	1.30	108	101	
19	124	1.10	1.048809	1.00	108	101	
20	128	1.50	1.224745	1.40	108	101	
21	130	1.60	1.264911	1.50	108	101	
22	129	1.70	1.30384	1.60	108	102	
23	128	1.40	1.183216	1.30	108	102	METER T.
24	125	1.00	1	0.93	108	102	AVERAGE
	127.79167		1.2108	1.3846	105.8333	99.9583	102.8958

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	39.6
NOZZLE DIAMETER (INCH.) :	0.2473	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.36
GAS METER VOL.(Cu.Ft.) :	38.287	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000334	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.8182
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8640
FRACTIONAL MOISTURE CONTENT (%):	0.0495
DRY BASE:	79.5000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0600
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5129
STACK PRESSURE (inch Hg):	30.1265
STACK GAS VELOCITY (ft/sec.):	47.7167
ACTUAL STACK GAS FLOW RATE (ACFM):	127892.752
STANDARD STACK GAS FLOW RATE (SCFH):	5140132.94
ISOKINETIC RATIO (%):	93.3780

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	300	0.39	0.6245	0.89	94	94	
2	300	0.41	0.640312	0.88	97	93	
3	290	0.45	0.67082	1.00	100	93	
4	292	0.40	0.632456	0.89	101	94	
5	290	0.39	0.6245	0.84	103	94	
6	291	0.41	0.640312	0.88	103	94	
7	298	0.55	0.74162	1.20	104	95	
8	292	0.60	0.774597	1.30	105	95	
9	295	0.64	0.8	1.40	106	95	
10	301	0.65	0.806226	1.40	106	95	
11	298	0.63	0.793725	1.40	106	96	
12	290	0.54	0.734847	1.20	107	96	
13	300	0.48	0.69282	1.00	107	96	
14	300	0.48	0.69282	1.00	107	96	
15	301	0.50	0.707107	1.10	107	96	
16	298	0.50	0.707107	1.10	107	96	
17	292	0.53	0.728011	1.10	107	96	
18	291	0.54	0.734847	1.20	107	96	
19	292	0.54	0.734847	1.20	107	96	
20	292	0.52	0.72111	1.10	107	96	
21	292	0.49	0.7	1.10	107	96	
22	292	0.51	0.714143	1.10	107	96	
23	290	0.49	0.7	1.10	107	96	METER T.
24	289	0.49	0.7	1.10	107	96	AVERAGE
	294.41667		0.7090	1.1033	104.8333	95.2500	100.0417

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	38.5
NOZZLE DIAMETER (INCH.) :	0.2473	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.42
GAS METER VOL.(Cu.Ft.) :	39.155	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	20
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000334	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	37.3395
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8122
FRACTIONAL MOISTURE CONTENT (%):	0.0463
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9600
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4527
STACK PRESSURE (inch Hg):	30.1309
STACK GAS VELOCITY (ft/sec.):	49.0147
ACTUAL STACK GAS FLOW RATE (ACFM):	131371.682
STANDARD STACK GAS FLOW RATE (SCFH):	5283215.89
ISOKINETIC RATIO (%):	94.7075

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	298	0.41	0.640312	0.88	80	80	
2	298	0.44	0.663325	0.94	83	80	
3	300	0.41	0.640312	0.88	86	80	
4	301	0.45	0.67082	0.96	89	80	
5	303	0.42	0.648074	0.90	90	81	
6	299	0.46	0.678233	0.99	91	81	
7	295	0.64	0.8	1.30	92	81	
8	292	0.68	0.824621	1.40	95	82	
9	296	0.68	0.824621	1.40	96	83	
10	298	0.69	0.830662	1.40	96	84	
11	303	0.66	0.812404	1.40	97	84	
12	291	0.49	0.7	1.00	98	85	
13	293	0.42	0.648074	0.90	95	84	
14	291	0.44	0.663325	0.95	97	86	
15	291	0.45	0.67082	0.98	97	86	
16	298	0.59	0.768115	1.30	98	86	
17	295	0.61	0.781025	1.30	98	86	
18	297	0.63	0.793725	1.40	99	87	
19	296	0.61	0.781025	1.30	99	87	
20	295	0.52	0.72111	1.10	99	87	
21	297	0.54	0.734847	1.20	99	87	
22	298	0.54	0.734847	1.00	99	87	
23	297	0.50	0.707107	1.10	100	88	METER T.
24	296	0.49	0.7	1.10	100	88	AVERAGE
	296.58333		0.7266	1.1283	94.7083	84.1667	89.4375

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	39.2
NOZZLE DIAMETER (INCH.) :	0.2473	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.48
GAS METER VOL.(Cu.Ft.) :	37.857	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	20
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000334	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.7487
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8451
FRACTIONAL MOISTURE CONTENT (%):	0.0491
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9600
MOLECULAR WT. OF STACK GAS (WET BASE):	28.4221
STACK PRESSURE (inch Hg):	30.1353
STACK GAS VELOCITY (ft/sec.):	47.5050
ACTUAL STACK GAS FLOW RATE (ACFM):	127325.415
STANDARD STACK GAS FLOW RATE (SCFH):	5099215.29
ISOKINETIC RATIO (%):	93.9446

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	298	0.45	0.67082	0.98	86	86	
2	298	0.42	0.648074	0.90	90	86	
3	299	0.60	0.774597	1.30	93	86	
4	300	0.61	0.781025	1.30	95	86	
5	301	0.66	0.812404	1.40	95	86	
6	300	0.62	0.787401	1.30	98	86	
7	306	0.51	0.714143	1.10	100	87	
8	303	0.42	0.648074	0.92	101	87	
9	301	0.39	0.6245	0.83	101	88	
10	299	0.40	0.632456	0.86	101	88	
11	298	0.41	0.640312	0.88	101	89	
12	296	0.42	0.648074	0.90	102	89	
13	291	0.46	0.678233	0.99	102	89	
14	298	0.46	0.678233	0.99	103	90	
15	299	0.48	0.69282	1.00	103	90	
16	297	0.46	0.678233	0.99	103	90	
17	299	0.49	0.7	1.00	103	91	
18	297	0.51	0.714143	1.00	104	91	
19	296	0.57	0.754983	1.20	104	92	
20	292	0.55	0.74162	1.10	104	92	
21	291	0.55	0.74162	1.10	105	92	
22	295	0.55	0.74162	1.10	105	92	
23	299	0.51	0.714143	1.00	105	93	METER T.
24	290	0.44	0.663325	0.94	105	93	AVERAGE
	297.625		0.7034	1.0450	100.3750	89.1250	94.7500

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust
RUN# : 7

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	53.2
NOZZLE DIAMETER (INCH.) :	0.2473	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	38.06	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	20
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000334	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.7352
VOLUME OF WATER VAPOR (STD. CU.FT.):	2.5041
FRACTIONAL MOISTURE CONTENT (%):	0.0655
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.9600
MOLECULAR WT. OF STACK GAS (WET BASE):	28.2423
STACK PRESSURE (inch Hg):	30.1272
STACK GAS VELOCITY (ft/sec.):	47.6831
ACTUAL STACK GAS FLOW RATE (ACFM):	127802.906
STANDARD STACK GAS FLOW RATE (SCFH):	5045060.16
ISOKINETIC RATIO (%):	94.9174

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	298	0.44	0.663325	0.95	91	91	
2	297	0.43	0.655744	0.93	95	90	
3	299	0.59	0.768115	1.30	97	90	
4	300	0.61	0.781025	1.30	100	90	
5	300	0.67	0.818535	1.40	101	91	
6	297	0.63	0.793725	1.40	101	91	
7	298	0.52	0.72111	1.10	102	91	
8	296	0.44	0.663325	0.95	102	91	
9	283	0.40	0.632456	0.86	103	92	
10	283	0.40	0.632456	0.86	103	92	
11	289	0.42	0.648074	0.90	104	93	
12	294	0.40	0.632456	0.86	104	93	
13	295	0.47	0.685565	1.00	105	94	
14	295	0.46	0.678233	1.00	105	94	
15	297	0.47	0.685565	1.00	105	94	
16	298	0.47	0.685565	1.00	105	94	
17	299	0.49	0.7	1.10	105	94	
18	298	0.51	0.714143	1.10	105	94	
19	294	0.58	0.761577	1.20	106	95	
20	295	0.56	0.748331	1.20	106	96	
21	296	0.55	0.74162	1.20	106	96	
22	293	0.54	0.734847	1.20	106	96	
23	294	0.51	0.714143	1.10	106	96	METER T.
24	296	0.43	0.655744	0.93	106	96	AVERAGE
	295.16667		0.7048	1.0768	102.8750	93.0833	97.9792

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust
RUN# : 8

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	38.8
NOZZLE DIAMETER (INCH.) :	0.2473	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	0.9841	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	38.222	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	19
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000334	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	35.6995
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8263
FRACTIONAL MOISTURE CONTENT (%):	0.0487
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	29.0800
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5408
STACK PRESSURE (inch Hg):	30.1272
STACK GAS VELOCITY (ft/sec.):	47.7846
ACTUAL STACK GAS FLOW RATE (ACFM):	128074.785
STANDARD STACK GAS FLOW RATE (SCFH):	5114604.8
ISOKINETIC RATIO (%):	93.5329

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	300	0.45	0.67082	0.97	95	95	
2	300	0.43	0.655744	0.93	97	95	
3	299	0.42	0.648074	0.91	98	96	
4	303	0.41	0.640312	0.88	100	96	
5	300	0.45	0.67082	0.97	100	96	
6	300	0.45	0.67082	0.97	100	96	
7	298	0.56	0.748331	1.20	102	98	
8	298	0.60	0.774597	1.30	104	98	
9	300	0.61	0.781025	1.30	106	99	
10	300	0.61	0.781025	1.30	106	99	
11	303	0.57	0.754983	1.20	107	99	
12	300	0.46	0.678233	0.99	108	96	
13	301	0.42	0.648074	0.90	108	96	
14	300	0.45	0.67082	0.97	108	97	
15	297	0.53	0.728011	1.10	108	97	
16	299	0.56	0.748331	1.20	108	96	
17	300	0.61	0.781025	1.30	108	96	
18	299	0.61	0.781025	1.30	108	96	
19	299	0.61	0.781025	1.30	108	96	
20	301	0.50	0.707107	1.10	108	97	
21	301	0.48	0.69282	1.00	108	97	
22	299	0.45	0.67082	0.97	108	98	
23	300	0.43	0.655744	0.92	108	98	METER T.
24	301	0.42	0.648074	0.90	108	98	AVERAGE
	299.91667		0.7078	1.0783	104.9583	96.8750	100.9167

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO Exhaust,Phenol Train
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	39.9
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.36
GAS METER VOL.(Cu.Ft.) :	35.504	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18.5
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.7639
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8781
FRACTIONAL MOISTURE CONTENT (%):	0.0513

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1				1.00	94	94	
2				1.00	96	93	
3				1.00	99	93	
4				1.00	101	94	
5				1.00	101	95	
6				1.00	102	95	
7				1.00	102	95	
8				1.00	102	95	
9				1.00	102	96	
10				1.00	101	95	METER T.
11				1.00	100	95	AVERAGE
12				1.00	100	95	
13							97.2917
14				1.0000	100.0000	94.5833	

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust,Phenol Train
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	30.6
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	34.783	PERCENT CO2 :	2
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	18
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.7463
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.4403
FRACTIONAL MOISTURE CONTENT (%):	0.0398

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1				1.00	80	80	
2				1.00	83	80	
3				1.00	86	80	
4				1.00	88	81	
5				1.00	90	82	
6				1.00	91	83	
7				1.00	92	83	
8				1.00	92	84	
9				1.00	93	85	
10				1.00	93	85	METER T.
11				1.00	93	86	AVERAGE
12				1.00	94	86	
13							86.2500
14				1.0000	89.5833	82.9167	
15							

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust,Phenol Train
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	44.2
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.56
GAS METER VOL.(Cu.Ft.) :	35.127	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	20
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.7297
VOLUME OF WATER VAPOR (STD. CU.FT.):	2.0805
FRACTIONAL MOISTURE CONTENT (%):	0.0565

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
				1.00	85	85	
				1.00	90	85	
				1.00	93	86	
				1.00	94	86	
				1.00	95	87	
				1.00	96	88	
				1.00	97	89	
				1.00	98	89	
				1.00	99	90	
				1.00	99	91	METER T.
				1.00	100	92	AVERAGE
				1.00	100	92	
							91.9167
				1.0000	95.5000	88.3333	

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust,Phenol Train
RUN# : 7

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	50.7
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg)	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg)	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.37
GAS METER VOL.(Cu.Ft.) :	34.468	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	20
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.7419
VOLUME OF WATER VAPOR (STD. CU.FT.):	2.3864
FRACTIONAL MOISTURE CONTENT (%):	0.0661

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1				1.00	90	91	
2				1.00	95	91	
3				1.00	97	91	
4				1.00	100	92	
5				1.00	101	93	
6				1.00	102	94	
7				1.00	103	94	
8				1.00	105	95	
9				1.00	104	96	
10				1.00	104	96	METER T.
11				1.00	105	97	AVERAGE
12				1.00	105	97	
13							97.4167
14				1.0000	100.9167	93.9167	
15							

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO Exhaust,Phenol Train
RUN# : 8

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	38.9
NOZZLE DIAMETER (INCH.) :	0.5	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0252	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	0.56
GAS METER VOL.(Cu.Ft.) :	35.913	PERCENT CO2 :	1
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	20
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):	90.5	STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	44.67088	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.001364	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 44.67088

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.9813
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.8310
FRACTIONAL MOISTURE CONTENT (%):	0.0497

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
				1.00	96	96	
				1.00	99	96	
				1.00	102	96	
				1.00	99	96	
				1.00	102	96	
				1.00	104	97	
				1.00	105	97	
				1.00	105	98	
				1.00	106	98	
				1.00	106	99	METER T.
				1.00	107	99	AVERAGE
				1.00	107	99	
							100.2083
				1.0000	103.1667	97.2500	

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO North Inlet
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	47.5
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0113	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.3
GAS METER VOL.(Cu.Ft.) :	35.103	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	40.5
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	48.5
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	13.64063

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	34.1272
VOLUME OF WATER VAPOR (STD. CU.FT.):	2.2358
FRACTIONAL MOISTURE CONTENT (%):	0.0615
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.1735
STACK PRESSURE (inch Hg):	30.0044
STACK GAS VELOCITY (ft/sec.):	73.6223
ACTUAL STACK GAS FLOW RATE (ACFM):	58767.4418
STANDARD STACK GAS FLOW RATE (SCFH):	2937895.62

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	140	1.30	1.140175	1.00	90	91	
2	138	1.40	1.183216	1.00	93	91	
3	137	1.60	1.264911	1.00	96	91	
4	136	1.70	1.30384	1.00	97	91	
5	137	1.30	1.140175	1.00	97	91	
6	138	1.10	1.048809	1.00	98	91	
7	135	1.60	1.264911	1.00	98	91	
8	134	2.00	1.414214	1.00	98	91	
9	135	2.00	1.414214	1.00	98	91	
10	137	1.80	1.341641	1.00	97	91	
11	135	1.60	1.264911	1.00	97	91	
12	135	0.92	0.959166	1.00	97	91	
13		1.40	1.183216				
14	136.41667	1.70	1.30384	1.0000	96.3333	91.0000	
15		1.40	1.183216				
16		1.90	1.378405				
17		1.50	1.224745				
18		1.10	1.048809				
19		1.50	1.224745				
20		1.70	1.30384				
21		1.80	1.341641				
22		1.60	1.264911				
23		1.20	1.095445				METER T.
24		1.00	1				AVERAGE
			1.2205				93.6667

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO North Inlet
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	37.4
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0113	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.4
GAS METER VOL.(Cu.Ft.) :	33.88	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.6317
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.7604
FRACTIONAL MOISTURE CONTENT (%):	0.0497
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3008
STACK PRESSURE (inch Hg):	29.9971
STACK GAS VELOCITY (ft/sec.):	63.9242
ACTUAL STACK GAS FLOW RATE (ACFM):	51026.2004
STANDARD STACK GAS FLOW RATE (SCFH):	2586163.49

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	135	1.30	1.140175	1.00	77	77
2	136	1.80	1.341641	1.00	81	77
3	136	1.90	1.378405	1.00	81	78
4	136	1.70	1.30384	1.00	83	78
5	137	1.20	1.095445	1.00	85	79
6	136	0.98	0.989949	1.00	86	79
7	136	0.82	0.905539	1.00	87	79
8	137	1.30	1.140175	1.00	88	80
9	136	1.50	1.224745	1.00	88	80
10	134	1.40	1.183216	1.00	89	81
11	134	0.98	0.989949	1.00	89	81
12	133	0.85	0.921954	1.00	89	82
13		0.77	0.877496			
14	135.5	0.82	0.905539	1.0000	85.2500	79.2500
15		1.10	1.048809			
16		1.50	1.224745			
17		1.30	1.140175			
18		1.10	1.048809			
19		0.53	0.728011			
20		0.66	0.812404			
21		0.97	0.984886			
22		1.10	1.048809			
23		1.10	1.048809			METER T.
24		1.05	1.024695			AVERAGE
			1.0628			82.2500

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO North Inlet
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	37.8
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0113	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.5
GAS METER VOL.(Cu.Ft.) :	33.782	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.2255
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.7792
FRACTIONAL MOISTURE CONTENT (%):	0.0508
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.2890
STACK PRESSURE (inch Hg):	29.9897
STACK GAS VELOCITY (ft/sec.):	65.2174
ACTUAL STACK GAS FLOW RATE (ACFM):	52058.4166
STANDARD STACK GAS FLOW RATE (SCFH):	2625992.1

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	136	1.20	1.095445	1.00	82	82	
2	134	1.50	1.224745	1.00	85	82	
3	137	1.70	1.30384	1.00	87	82	
4	136	1.80	1.341641	1.00	89	82	
5	137	1.70	1.30384	1.00	90	83	
6	137	0.86	0.927362	1.00	91	84	
7	138	0.84	0.916515	1.00	92	84	
8	139	1.30	1.140175	1.00	93	86	
9	139	1.50	1.224745	1.00	94	86	
10	139	1.60	1.264911	1.00	94	86	
11	139	1.20	1.095445	1.00	94	86	
12	139	0.82	0.905539	1.00	94	87	
13		0.86	0.927362				
14	137.5	0.84	0.916515	1.0000	90.4167	84.1667	
15		1.20	1.095445				
16		1.40	1.183216				
17		1.10	1.048809				
18		0.92	0.959166				
19		0.72	0.848528				
20		0.93	0.964365				
21		1.10	1.048809				
22		1.30	1.140175				
23		1.20	1.095445				METER T.
24		1.00	1				AVERAGE
			1.0822				87.2917

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO North Inlet
RUN# : 7

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	33.5
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0113	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.9
GAS METER VOL.(Cu.Ft.) :	33.88	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.0252
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.5768
FRACTIONAL MOISTURE CONTENT (%):	0.0456
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3460
STACK PRESSURE (inch Hg):	29.9603
STACK GAS VELOCITY (ft/sec.):	65.2136
ACTUAL STACK GAS FLOW RATE (ACFM):	52055.4196
STANDARD STACK GAS FLOW RATE (SCFH):	2623526.79

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	140	1.30	1.140175	1.00	86	87
2	137	1.50	1.224745	1.00	90	87
3	138	1.60	1.264911	1.00	93	87
4	140	1.60	1.264911	1.00	95	88
5	142	1.40	1.183216	1.00	96	88
6	141	0.76	0.87178	1.00	96	89
7	141	0.89	0.943398	1.00	97	90
8	142	1.10	1.048809	1.00	97	90
9	142	1.50	1.224745	1.00	98	90
10	142	1.40	1.183216	1.00	98	91
11	142	1.20	1.095445	1.00	98	91
12	142	0.88	0.938083	1.00	99	92
13		0.81	0.9			
14	140.75	0.92	0.959166	1.0000	95.2500	89.1667
15		1.30	1.140175			
16		1.50	1.224745			
17		1.30	1.140175			
18		0.89	0.943398			
19		0.74	0.860233			
20		0.89	0.943398			
21		1.30	1.140175			
22		1.40	1.183216			
23		1.20	1.095445			METER T.
24		1.00	1			AVERAGE
			1.0797			92.2083

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO North Inlet
RUN# : 8

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	31.2
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.0113	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.5
GAS METER VOL.(Cu.Ft.) :	34.398	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.3389
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.4686
FRACTIONAL MOISTURE CONTENT (%):	0.0422
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3826
STACK PRESSURE (inch Hg):	29.9897
STACK GAS VELOCITY (ft/sec.):	65.6382
ACTUAL STACK GAS FLOW RATE (ACFM):	52394.3401
STANDARD STACK GAS FLOW RATE (SCFH):	2642296.11

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	136	1.40	1.183216	1.00	90	90	
2	144	1.60	1.264911	1.00	94	91	
3	144	1.70	1.30384	1.00	96	91	
4	143	1.80	1.341641	1.00	98	91	
5	144	1.70	1.30384	1.00	99	92	
6	144	0.96	0.979796	1.00	99	92	
7	144	1.00	1	1.00	100	93	
8	143	1.30	1.140175	1.00	100	93	
9	144	1.40	1.183216	1.00	101	94	
10	144	1.50	1.224745	1.00	101	94	
11	144	1.30	1.140175	1.00	101	94	
12	143	0.85	0.921954	1.00	101	94	
13		0.79	0.888819				
14	143.08333	0.92	0.959166	1.0000	98.3333	92.4167	
15		1.30	1.140175				
16		1.30	1.140175				
17		1.20	1.095445				
18		0.77	0.877496				
19		0.80	0.894427				
20		0.94	0.969536				
21		1.00	1				
22		1.20	1.095445				
23		1.10	1.048809				METER T.
24		0.93	0.964365				AVERAGE
			1.0859				95.3750

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 13-Jul-95
PLACE : Press RTO South Inlet
RUN# : 4

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	21.2
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.3
GAS METER VOL.(Cu.Ft.) :	35.103	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	40.5
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	48.5
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	13.64063

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	33.8444
VOLUME OF WATER VAPOR (STD. CU.FT.):	0.9979
FRACTIONAL MOISTURE CONTENT (%):	0.0286
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.5295
STACK PRESSURE (inch Hg):	30.0044
STACK GAS VELOCITY (ft/sec.):	72.5481
ACTUAL STACK GAS FLOW RATE (ACFM):	57909.9777
STANDARD STACK GAS FLOW RATE (SCFH):	3047229.38

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	124	1.30	1.140175	1.00	94	94	
2	126	1.40	1.183216	1.00	99	94	
3	128	1.60	1.264911	1.00	101	94	
4	130	1.70	1.30384	1.00	101	95	
5	129	1.30	1.140175	1.00	101	95	
6	127	1.10	1.048809	1.00	101	95	
7	125	1.60	1.264911	1.00	101	96	
8	127	2.00	1.414214	1.00	101	96	
9	128	2.00	1.414214	1.00	101	96	
10	130	1.80	1.341641	1.00	102	97	
11	128	1.60	1.264911	1.00	102	97	
12	127	0.92	0.959166	1.00	102	97	
13	126	1.40	1.183216				
14	129	1.70	1.30384	1.0000	100.5000	95.5000	
15	126	1.40	1.183216				
16	127	1.90	1.378405				
17	129	1.50	1.224745				
18	127	1.10	1.048809				
19	125	1.50	1.224745				
20	128	1.70	1.30384				
21	128	1.80	1.341641				
22	121	1.60	1.264911				
23	129	1.20	1.095445				METER T.
24	111	1.00	1				AVERAGE
	126.4583		1.2205				98.0000

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO South Inlet
RUN# : 5

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	29.8
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-2
GAS METER VOL.(Cu.Ft.) :	29.726	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	29.1234
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.4027
FRACTIONAL MOISTURE CONTENT (%):	0.0460
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3419
STACK PRESSURE (inch Hg):	29.9529
STACK GAS VELOCITY (ft/sec.):	71.3250
ACTUAL STACK GAS FLOW RATE (ACFM):	56933.7265
STANDARD STACK GAS FLOW RATE (SCFH):	2930344.21

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	124	1.30	1.140175	1.00	82	82	
2	126	1.60	1.264911	1.00	89	83	
3	129	1.40	1.183216	1.00	90	84	
4	130	1.30	1.140175	1.00	92	85	
5	128	0.92	0.959166	1.00	92	85	
6	127	0.74	0.860233	1.00	93	86	
7	126	1.90	1.378405	1.00	94	87	
8	128	1.70	1.30384	1.00	94	87	
9	130	1.50	1.224745	1.00	95	88	
10	131	1.45	1.204159	1.00	95	88	
11	129	1.20	1.095445	1.00	95	89	
12	126	0.96	0.979796	1.00	95	89	
13	127	1.10	1.048809				
14	128	1.70	1.30384	1.0000	92.1667	86.0833	
15	130	1.90	1.378405				
16	131	1.80	1.341641				
17	129	1.70	1.30384				
18	127	1.20	1.095445				
19	125	1.30	1.140175				
20	128	1.60	1.264911				
21	130	1.80	1.341641				
22	129	1.90	1.378405				
23	126	1.60	1.264911				METER T.
24	125	1.10	1.048809				AVERAGE
	127.875		1.1935				89.1250

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO South Inlet
RUN# : 6

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	27.1
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.6
GAS METER VOL.(Cu.Ft.) :	29.938	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	29.1190
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.2756
FRACTIONAL MOISTURE CONTENT (%):	0.0420
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3851
STACK PRESSURE (inch Hg):	29.9824
STACK GAS VELOCITY (ft/sec.):	69.9198
ACTUAL STACK GAS FLOW RATE (ACFM):	55812.01
STANDARD STACK GAS FLOW RATE (SCFH):	2892559.19

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	121	1.30	1.140175	1.00	87	87	
2	124	1.40	1.183216	1.00	93	87	
3	126	1.30	1.140175	1.00	94	88	
4	127	1.40	1.183216	1.00	95	89	
5	128	1.20	1.095445	1.00	96	89	
6	124	0.82	0.905539	1.00	97	90	
7	126	1.50	1.224745	1.00	98	91	
8	128	1.70	1.30384	1.00	98	91	
9	130	1.60	1.264911	1.00	98	92	
10	131	1.50	1.224745	1.00	99	92	
11	129	1.40	1.183216	1.00	99	93	
12	128	1.00	1	1.00	99	93	
13		1.40	1.183216				
14	126.83333	1.60	1.264911	1.0000	96.0833	90.1667	
15		1.70	1.30384				
16		1.60	1.264911				
17		1.50	1.224745				
18		1.20	1.095445				
19		1.20	1.095445				
20		1.60	1.264911				
21		1.50	1.224745				
22		1.60	1.264911				
23		1.30	1.140175				METER T.
24		0.93	0.964365				AVERAGE
			1.1725				93.1250

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO South Inlet
RUN# : 7

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	28.8
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.2
GAS METER VOL.(Cu.Ft.) :	32.083	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inches) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inches) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	31.0230
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.3556
FRACTIONAL MOISTURE CONTENT (%):	0.0419
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3862
STACK PRESSURE (inch Hg):	30.0118
STACK GAS VELOCITY (ft/sec.):	69.6706
ACTUAL STACK GAS FLOW RATE (ACFM):	55613.1116
STANDARD STACK GAS FLOW RATE (SCFH):	2883742.35

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET
1	122	1.20	1.095445	1.00	91	91
2	124	1.40	1.183216	1.00	96	91
3	126	1.40	1.183216	1.00	98	92
4	128	1.30	1.140175	1.00	99	93
5	127	1.20	1.095445	1.00	100	93
6	126	0.84	0.916515	1.00	100	94
7	128	1.40	1.183216	1.00	100	94
8	130	1.60	1.264911	1.00	101	95
9	128	1.70	1.30384	1.00	101	95
10	127	1.70	1.30384	1.00	101	95
11	131	1.50	1.224745	1.00	101	95
12	129	0.94	0.969536	1.00	101	96
13		1.40	1.183216			
14	127.16667	1.70	1.30384	1.0000	99.0833	93.6667
15		1.70	1.30384			
16		1.80	1.341641			
17		1.60	1.264911			
18		0.91	0.953939			
19		1.10	1.048809			
20		1.40	1.183216			
21		1.60	1.264911			
22		1.50	1.224745			
23		1.30	1.140175			METER T.
24		0.94	0.969536			AVERAGE
			1.1686			96.3750

EMISSION TEST SUMMARY

PLANT : Kirby Forest Products, Silsbee, TX
DATE : 14-Jul-95
PLACE : Press RTO South Inlet
RUN# : 8

TEST DURATION (MINUTES) :	60	LIQUID COLLECTED (mls) :	29.6
NOZZLE DIAMETER (INCH.) :	0.184	PARTICULATE WEIGHT (Front half mg) :	0
METER COEFFICIENT (Y) :	1.01077	PARTICULATE WEIGHT (Back half mg) :	0
PITOT COEFFICIENT (Cp) :	0.84	STATIC PRESSURE (in. H2O) :	-1.5
GAS METER VOL.(Cu.Ft.) :	29.668	PERCENT CO2 :	0
BAROMETRIC PRESSURE :	30.1	PERCENT O2 :	21
		PERCENT CO :	0

FOR CIRCULAR STACK		FOR RECTANGULAR STACK	
STACK DIAMETER (inch):		STACK LENGTH(inchs) :	
STACK AREA (Sq.Ft.) :	0	STACK WIDTH(inchs) :	
NOZZLE AREA (feet):	0.000185	STACK AREA (Sq.Ft.) :	0

ENTER THE STACK AREA SHOWN ABOVE: 13.30382

FLOWS

SAMPLED VOLUME (STD. CU.FT.):	28.5382
VOLUME OF WATER VAPOR (STD. CU.FT.):	1.3933
FRACTIONAL MOISTURE CONTENT (%):	0.0465
DRY BASE:	79.0000
MOLECULAR WT. OF STACK GAS (DRY BASE):	28.8400
MOLECULAR WT. OF STACK GAS (WET BASE):	28.3354
STACK PRESSURE (inch Hg):	29.9897
STACK GAS VELOCITY (ft/sec.):	69.4247
ACTUAL STACK GAS FLOW RATE (ACFM):	55416.7934
STANDARD STACK GAS FLOW RATE (SCFH):	2851351.36

POINTS	STACK T. deg F	DELTA P	QUAR D.	DELTA H	METER T. INLET	METER T. OUTLET	
1	123	1.20	1.095445	1.00	94	94	
2	126	1.40	1.183216	1.00	99	94	
3	129	1.40	1.183216	1.00	101	95	
4	130	1.30	1.140175	1.00	102	96	
5	131	1.20	1.095445	1.00	102	96	
6	128	0.73	0.8544	1.00	103	97	
7	127	1.50	1.224745	1.00	103	97	
8	129	1.60	1.264911	1.00	104	98	
9	130	1.60	1.264911	1.00	104	98	
10	129	1.50	1.224745	1.00	104	98	
11	131	1.30	1.140175	1.00	104	98	
12	128	0.97	0.984886	1.00	104	98	
13		1.40	1.183216				
14	128.41667	1.60	1.264911	1.0000	102.0000	96.5833	
15		1.60	1.264911				
16		1.70	1.30384				
17		1.50	1.224745				
18		1.40	1.183216				
19		1.20	1.095445				
20		1.40	1.183216				
21		1.50	1.224745				
22		1.60	1.264911				
23		1.20	1.095445				METER T.
24		0.88	0.938083				AVERAGE
			1.1618				99.2917

APPENDIX B

PURPOSE

Testing of the KFI Silsbee OSB Mill is being conducted to assure compliance with emission limits set forth in permit No.19695. Testing will be conducted on the emissions from the regenerative thermal oxidizers (3 RTO's), 2 RTO's on the 5 wafer dryers and 1 RTO on the board press.

PROCESS DESCRIPTION

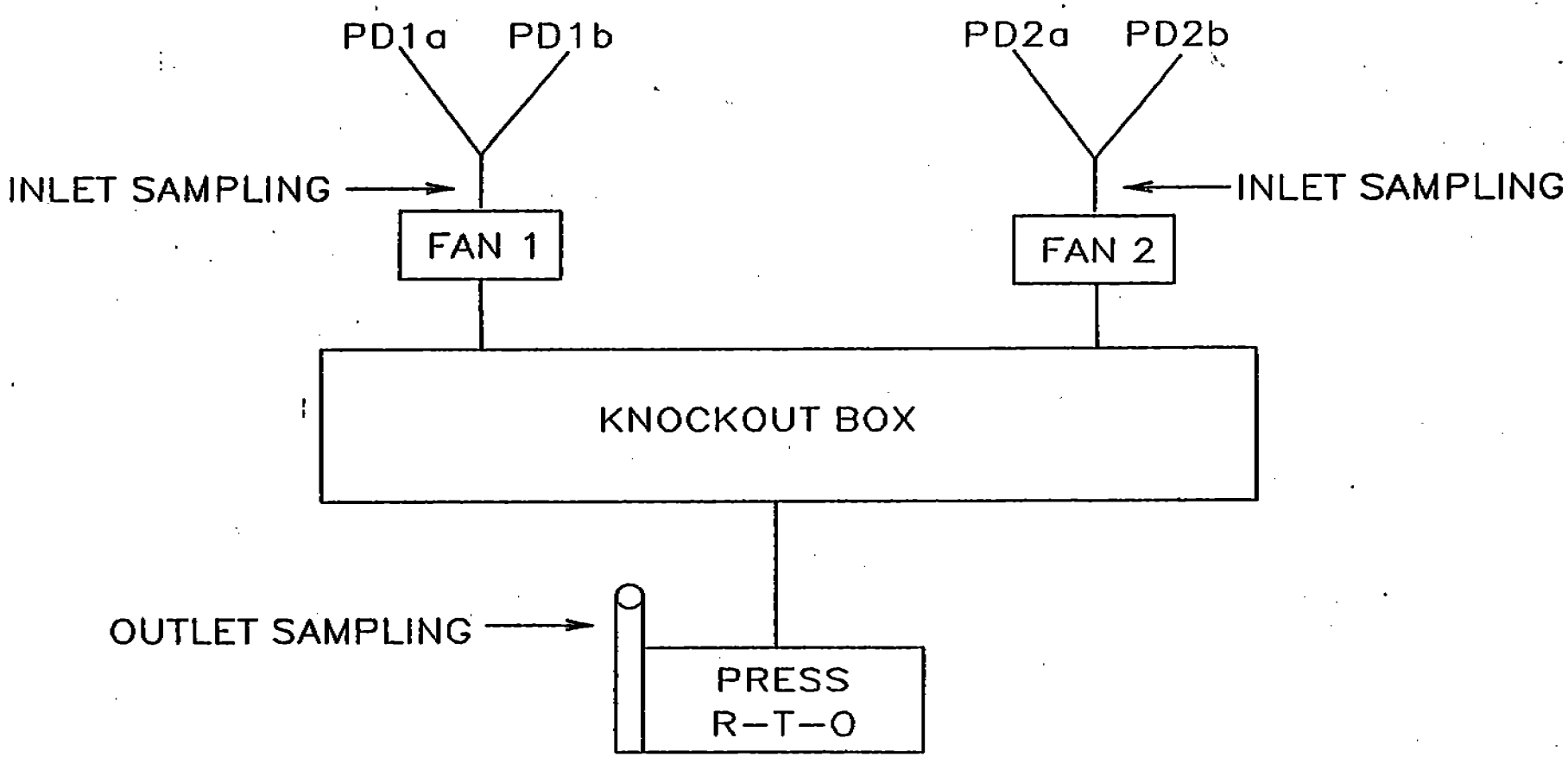
The manufacture of OSB at Silsbee begins with southern pine logs trucked to the facility, off-loaded and stored or fed into a whole log (drum) debarker. The bark from the logs is collected and sold for bark and mulch. The debarked log proceeds to a whole log waferizer which slices the logs into thin wafers, cutting with the grain of the wood not across it.

The wafers are collected on conveyer belts that transport them to green wafer storage bins above the triple-pass rotary dryers; into which they are fed via gravity and rotary air locks. The inlet temperatures of these dryers may range between 800 and 1100°F. The wafers are moved through the dryers by air flows of approximately 45000-55000 acfm. A primary cyclone removes the wood material and a screen separates the usable wafers from small fines. These dry fines are collected and pneumatically transported to storage bins for use as fuel for the wafer dryer burners and thermal oil heater while the exhaust air stream passes through a fabric filter. The exhaust air from this process passes through a multicyclone then to the RTO's for thermal oxidation. The dry wafers (approximately 7% moisture) are collected and transported to bins via enclosed, rake conveyers. These dry wafer bins supply wafers to the blenders (core and face) where resin and wax are added. The resinated wafers are fed out of the blenders to the forming line where four (4) mechanical formers lay down successive layers of wafers (bottom face-core-core-top face). This "mat" then passes via a caul system to the press loader where mats are stacked for loading into the press. The press is then loaded (12 mats) and closes with pressure and heat setting the resin. Thermal oil at approximately 420°F supplies the heat for this process. The thermal oil is heated in a wood fired thermal oil heater whose emissions are routed to each of the five (5) dryers and then the dryer RTO's. Emissions from the completely enclosed press area are collected via exhaust fans and directed to the press RTO. The RTO's are operated at between 1400 and 1600°F.

OSB panels exit the press and are conveyed to finishing saws which cut them to the proper dimensions. The saw kerf and dust are collected and conveyed pneumatically to bag filters. The panels are then stacked and banded into a bundle with the KFI logo and edge seal applied. The bundles are finally stacked in the warehouse area for shipment via truck or rail.

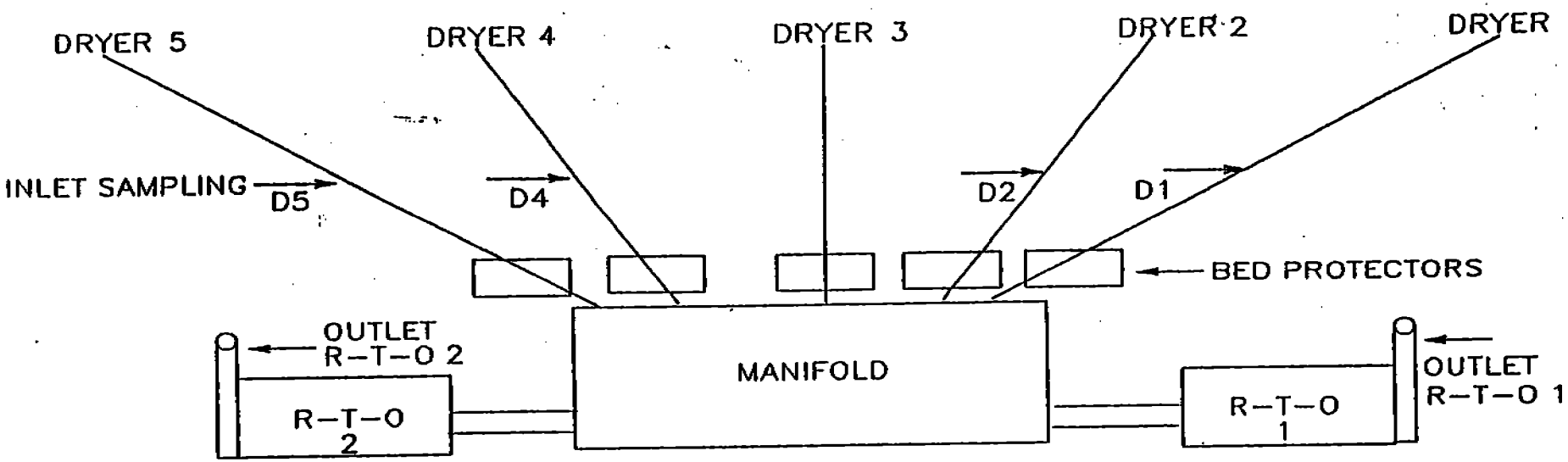
SILSBEE PRESS SCHEMATIC
SAMPLING PROTOCOL

PRESS DUCTS (4) GO TO TWO FANS WITH SEPARATE DUCTS TO "KNOCKOUT" BOX



SIMULTANEOUSLY SAMPLE ROUND VERTICAL INLET DUCTS TO FANS 1 & 2
AND THE STACK OUTLET TO THE R–T–O FOR ALL PARAMETERS
THREE 1–HR SAMPLES EACH

SILSBEE DRYER SCHEMATIC
SAMPLING PROTOCOL



EXAMPLE

I FOR FIRST SET OF PARAMETERS (e.g. TSP,NOx,CO)
SIMULTANEOUS R-T-O 1 & 2 WITH D5 & D4 (THREE 1-HR SAMPLES EACH)

II FOR SECOND SET OF PARAMETERS (e.g. FORMALDEHYDE, VOC)
SIMULTANEOUS R-T-O 1 & 2 WITH D1 & D2 (THREE 1-HR SAMPLES EACH)

EMMISIONS TESTING
SILSBEE OSB
JULY 11, 1995

DRYER THROUGHPUT SUMMARY

TEST # 1

EMPTY WEIGHT: 13280 LBS.

DRIER #	WOOD FUEL	INLET TEMP	OUTLET TEMP	BIN BOTTOM	OUTLET MOISTURE	INLET MOISTURE	SCREENER TEMPRETURE	DURATION	FULL WEIGHT	LBS. PER HOUR
1	2762.16 lbs.	1103.6 degrees F	215.6 degrees F	33	5.6 %	49 %	135 degrees F	2 min.	14000 lbs.	21600 lbs.
2	2911.1 lbs.	1101.0 degrees F	213.6 degrees F	34	5.0 %	49 %	155 degrees F	2 min.	13920 lbs.	19200 lbs.
3	2484.59 lbs.	1015.6 degrees F	211.4 degrees F	33	5.9 %	49 %	121 degrees F	2 min.	13940 lbs.	19800 lbs.
5	2660.61 lbs.	1021.6 degrees F	208.2 degrees F	33	5.6 %	49 %	137 degrees F	2 min.	13940 lbs.	19800 lbs.

TEST # 2

EMPTY WEIGHT: 13280 LBS.

DRIER #	WOOD FUEL	INLET TEMP	OUTLET TEMP	BIN BOTTOM	OUTLET MOISTURE	INLET MOISTURE	SCREENER TEMPRETURE	DURATION	FULL WEIGHT	LBS. PER HOUR
1	2694.46 lbs.	1053.8degrees F	213.4 degrees F	33	5.9 %	48 %	148 degrees F	2 min.	13980 lbs.	21000 lbs.
2	2708 lbs.	1040.2 degrees F	198.6 degrees F	34	5.4 %	48 %	151 degrees F	2 min.	13980 lbs.	21000 lbs.
3	2430.43 lbs.	1097.4 degrees F	224.8 degrees F	33	4.4 %	48 %	178 degrees F	2 min.	13860 lbs.	17400 lbs.
5	2531.98 lbs.	1037.6 degrees F	208.8 degrees F	33	9.6 %	48 %	144 degrees F	2 min. 33sec.	14140 lbs.	22145 lbs.

TEST # 3

EMPTY WEIGHT: 13240 LBS.

DRIER #	WOOD FUEL	INLET TEMP	OUTLET TEMP	BIN BOTTOM	OUTLET MOISTURE	INLET MOISTURE	SCREENER TEMPRETURE	DURATION	FULL WEIGHT	LBS. PER HOUR
1	2741.85 lbs.	1022.2degrees F	212.8 degrees F	33	5.9 %	57 %	136 degrees F	2 min.	13960 lbs.	21600 lbs.
2	2768.93 lbs.	1007.4 degrees F	197.2 degrees F	34	4.9 %	57 %	143 degrees F	2 min.	13900 lbs.	19800 lbs.
3	2044.54 lbs.	946.6 degrees F	210.8 degrees F	33	5.9 %	49 %	160 degrees F	2 min.	13960 lbs.	21600 lbs.
5	2599.68 lbs.	1019.6 degrees F	206.6 degrees F	33	7.8 %	49 %	138 degrees F	2 min.	13840 lbs.	18000 lbs.

EMMISIONS TESTING
SILSBEE OSB
JULY 12, 1995

DRYER THROUGHPUT SUMMARY

TEST # 2 **EMPTY WEIGHT: 13220 LBS.**

DRIER #	WOOD FUEL	INLET TEMP	OUTLET TEMP	BIN BOTTOM	OUTLET MOISTURE	INLET MOISTURE	SCREENER TEMPRETURE	DURATION	FULL WEIGHT	LBS. PER HOUR
1	2762.16 lbs.	1029.0 degrees F	212.8 degrees F	33	6.8 %	52 %	125 degrees F	2 min.	13940 lbs.	21600 lbs.
2	2376.27 lbs.	877.6 degrees F	196.4 degrees F	33	5.8 %	52 %	131 degrees F	2 min.	13900 lbs.	20400 lbs.
3	2125.78 lbs.	1017.8 degrees F	206.2 degrees F	33	7.1 %	46.3 %	128 degrees F	2 min.	13820 lbs.	18000 lbs.
5	2775.70 lbs.	994.6 degrees F	203.4 degrees F	33	12.6 %	16.3 %	113 degrees F	2 min.	13820 lbs.	18000 lbs.

TEST # 3 **EMPTY WEIGHT: 13220 LBS.**

DRIER #	WOOD FUEL	INLET TEMP	OUTLET TEMP	BIN BOTTOM	OUTLET MOISTURE	INLET MOISTURE	SCREENER TEMPRETURE	DURATION	FULL WEIGHT	LBS. PER HOUR
1	2897.56 lbs.	1084.0 degrees F	208.4 degrees F	33	9.3 %	47 %	113 degrees F	2 min.	13940 lbs.	21600 lbs.
2	2538.75 lbs.	912.4 degrees F	194.8 degrees F	33	6.3 %	47 %	127 degrees F	2 min.	13880 lbs.	19800 lbs.
3	2098.70 lbs.	952.4 degrees F	206.4 degrees F	33	7.2 %	50 %	124 degrees F	2 min.	13880 lbs.	19800 lbs.
5	2674.15 lbs.	999.6 degrees F	208.6 degrees F	33	6.5 %	50 %	127 degrees F	2 min.	13820 lbs.	18000 lbs.

SILSBEE TEXAS OSB STACK TEST OPERATIONAL SUMMARY

07/11/95

PRODUCTION PRESS

Press Temp. (°F)	420 - 440
Thickness (in)	0.438 & 0.719*
Density (nominal, lbs/cu ft)	41
PRODUCTION (Finished 3/8 in basis)	40,920 ft^2/hr ** 52,378 lbs/hr

*Nominal Thickness = 7/16 and 23/32 inch

**Anualized Production of 358,459,200 ft^2 3/8 basis (8760 hrs)

SILSBEE TEXAS OSB STACK TEST OPERATIONAL SUMMARY

07/12/95

PRODUCTION PRESS

Press Temp. (°F)	420 - 440
Thickness (in)	0.438*
Density (nominal, lbs/cu ft)	41
PRODUCTION (Finished 3/8 in basis)	42,336 ft^2/hr ** 54,190 lbs/hr

*Nominal Thickness = 7/16 inch

**Anualized Production of 370,863,360 ft^2 3/8 basis (8760 hrs)

SILSBEE TEXAS OSB STACK TEST OPERATIONAL SUMMARY

07/13/95

PRODUCTION PRESS

Press Temp. (°F)	420 - 440
Thickness (in)	0.438 & 0.469*
Density (nominal, lbs/cu ft)	41
PRODUCTION (Finished 3/8 in basis)	40,320 ft^2/hr ** 51,610 lbs/hr

*Nominal Thickness = 7/16 and 15/32 inch

**Anualized Production of 353,203,200 ft^2 3/8 basis (8760 hrs)

SILSBEE TEXAS OSB STACK TEST OPERATIONAL SUMMARY

07/14/95

PRODUCTION PRESS

Press Temp. (°F)	420 - 440
Thickness (in)	0.438 & 0.250*
Density (nominal, lbs/cu ft)	41
PRODUCTION (Finished 3/8 in basis)	34,576 ft^2/hr ** 44,257 lbs/hr

*Nominal Thickness = 7/16 and 1/4 inch

**Anualized Production of 302,885,760 ft^2 3/8 basis (8760 hrs)