

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from the Rosin Shed, Emission Point 008.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until September 1, 1986, the permittee is authorized to operate air emissions equipment and emit air contaminants from Woodwaste Boilers No. 1 & No. 2, Emission Point 009.

Such emissions shall be limited and monitored by the permittee as specified below:

EMISSION CHARACTERISTIC	EMISSION LIMITATIONS		
	lb/hr	lbs/day	Other units (specify)
Particulate Matter			0.3 gr/dscf
Opacity			40% or except as provided in APC-S-1

EMISSION CHARACTERISTIC	MONITORING REQUIREMENTS		
	Measurement Frequency	Sample Type	Reporting Frequency
Particulate Matter	See Part III, (1).		

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until September 1, 1986, the permittee is authorized to operate air emissions equipment and emit air contaminants from Woodwaste Boilers No. 3 & No. 4, Emission Point 010.

Such emissions shall be limited and monitored by the permittee as specified below:

EMISSION CHARACTERISTIC	EMISSION LIMITATIONS		
	lb/hr	lbs/day	Other units (specify)
Particulate Matter			0.3 gr/dscf
Opacity			40% or except as provided in APC-S-1

EMISSION CHARACTERISTIC	MONITORING REQUIREMENTS		
	Measurement Frequency	Sample Type	Reporting Frequency
Particulate Matter	See Part III, (1).		

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Package Boiler No. 5, Emission Point 011.

Such emissions shall be limited and monitored by the permittee as specified below:

EMISSION CHARACTERISTIC	EMISSION LIMITATIONS		
	lb/hr	lbs/day	Other units (specify)
SO ₂			4.8 lb/10 ⁶ BTU
Particulate Matter	59.2		
Opacity			40% or except as provided in APC-S-1

EMISSION CHARACTERISTIC	MONITORING REQUIREMENTS		
	Measurement Frequency	Sample Type	Reporting Frequency

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until September 1, 1986, the permittee is authorized to operate air emissions equipment and emit air contaminants from the pitch blowing facility, Emission Point 012.

Such air emissions equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Truline Flaking and Packaging Area,
Emission Point 014.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Hard Resins Area, Emission Point 015.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Continuous Esterification Unit, Emission
Point 016.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Flaking House, Emission Point 018.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Foral and Staybelite plant, Emission
Point 019.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Hydrogen Furnace, Emission Point 020.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Pilot Plant, Emission Point 021.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Resin 731 Area, Emission Point 022.

Such air emissions equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Stills and Dresinates Area, Emission
Point 023.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Kymene Plant, Emission Point 024.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Defoamer Plant, Emission Point 025.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Rosin Amine D, Emission Point 026.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Resin PS687 Plant, Emission Point 027.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Polyrad and Polyol, Emission Point 028.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Para-Cymene Unit, Emission Point 029.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Para-Menthane Unit, Emission Point 030.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Para-Menthane Hydroperoxide Unit, Emission
Point 031.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Sulfate Turpentine Refining Unit, Emission
Point 032.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until September 1, 1986, the permittee is authorized to operate air emissions equipment and emit air contaminants from Synthetic Pine Oil Facility, Emission Point 033.

Such air emissions equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants.

**PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Paracol Plant, Emission Point 035.

Such air emissions equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 23, 1983, and lasting until
September 1, 1986, the permittee is authorized to operate air emissions
equipment and emit air contaminants from Carbon Regeneration Furnace with Scrubber,
Emission Point 036.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

PART III
OTHER REQUIREMENTS

- (1) For Emission Points 009 and 010, the following conditions shall apply:
- A. The permittee shall perform a daily visible emissions evaluation on each stack, Monday through Friday. Each evaluation shall consist of three sets of six-minute readings with readings being made at 15 second intervals over the six-minute period for a total reading time of 18 minutes. These data shall be maintained on hand for review by Bureau personnel upon request.
 - B. The permittee shall maintain a boiler operation log book in the boiler control room. The log book shall include the operational status of each boiler, including start-ups and grate cleanings for the period. The log book shall be maintained on hand for review by Bureau personnel upon request.
 - C. The permittee shall submit a monthly report detailing the compliance status of the boilers. The report shall include copies of all visible emissions evaluations in which any reading exceeds 40% opacity.
 - D. The permittee shall demonstrate compliance of each boiler by stack sampling once per year during the months of March - May. The boilers shall be fired with woodwaste representative of that listed in the application for permit renewal. The Bureau should be notified at least 15 days prior to the test to ensure the availability of a test observer. A report of the stack test results shall be submitted within 30 days of completion of the testing.
- (2) For Emission Points 009, 010, and 011, the following condition shall apply:

By this condition, the stated facility is allowed sulfur dioxide emissions exceeding those emitted by the facility in 1970. This condition is authorized by the Bureau until expiration of this Permit to Operate.

Operation of this facility at higher sulfur dioxide emission levels than in 1970 after expiration of this permit is not allowed unless and until subsequent and additional Bureau authorization is given.

Attendant to the authorization stated above, this facility shall make written quarterly reports to the Bureau with the first report to be made ninety (90) days after the natural gas curtailment begins or at the time of reapplication for Permit to Operate, whichever comes first. The reports shall state density, heating value, daily usage (pounds/day), date of use and sulfur content of any and all fuels which exceed 2.2 percent sulfur by weight.

PART III
OTHER REQUIREMENTS

- (3) For Emission Point 012, the following additional condition will also apply:

Records of the operation of this facility must be kept and must show the duration of operation (time and dates) and amount of material processed. These records shall be made available to the Mississippi Bureau of Pollution Control upon request.

- (4) For Emission Point 021, the following condition shall apply.

Since this unit is used for experimental purposes and emissions may change depending on the conditions of the experiments, reports shall be made to the Mississippi Bureau of Pollution Control semi-annually beginning July 1, 1983, explaining all work done including, as a minimum, the duration of tests, types of raw materials used and products produced, and an assessment of emissions caused.

- (5) For Emission Point 036, the following condition shall apply:

If the scrubber should fail or its effectiveness be reduced, the permittee shall notify the Bureau immediately by phone and follow-up with a letter. The information reported shall include the nature of the failure, time off, estimated repair time, and action taken to preclude a recurrence.

- (6) For all Emission Points, the following additional condition shall apply:

Good housekeeping shall be maintained to prevent fugitive emissions. Should fugitive emissions become excessive as determined by Bureau inspection or by complaints, additional control measures may be required.



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



June 20, 1980

Mr. Charles Jordan
Hercules, Inc.
P.O. Box 1937
Hattiesburg, Mississippi 39401

Dear Mr. Jordan:

Enclosed is the additional page which was inadvertently omitted from your Permit to Operate. This page is for Emission Point 012 and expires at the same time as the rest of your permit, May 1, 1983.

If you have any questions, please contact us.

Very truly yours,

Donald A. Watts

Donald A. Watts
Air Emissions Section

DAW:sr
Enclosure

PART II

Page 11A of 34
Permit No. 0800-00001

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning May 13, 1980, and lasting until
May 1, 1983, the permittee is authorized to operate air emissions
equipment and emit air contaminants from the pitch blowing facility, Emission
Point 012.

Such air emissions equipment shall be operated as efficiently as possible to provide the
maximum reduction of air contaminants.

Mississippi Department of Natural Resources
Bureau of Pollution Control
Visible Emissions Evaluation Record

Plant Name: Hercules Inc.
Address: P.O. Box 1937
City: Hattiesburg, MS
Emission Point: South stack
Date: 5/3/82
Is emission point operation normal? yes

V. E. Observer: Detrick A. Brown
Certification Expiration: 5/4/82

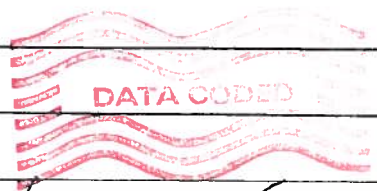
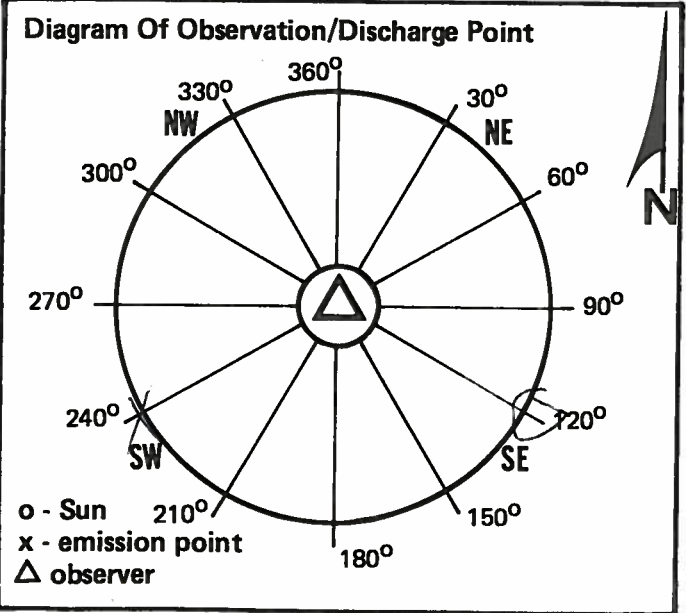
Set No.	Time		Opacity	
	Start	End	Sum	Average
1	12:00	12:06	335	13.9
2	12:06	12:12	335	7.8
3	12:12	12:18	165	6.8

Overall Average: 9.4

Min.	Seconds			
	0	15	30	45
0	20	15	20	10
1	15	15	10	15
2	15	20	10	20
3	10	10	10	15
4	10	15	15	15
5	15	15	10	10
0	10	10	15	10
1	10	10	15	10
2	5	5	5	5
3	5	5	5	5
4	10	10	5	5
5	10	5	5	5
0	5	10	10	15
1	10	5	5	10
2	10	10	10	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5

Remarks: The North Stack had an opacity of less than 5%

	Initial	Final
Distance to discharge	<u>500'</u>	
Direction to discharge	<u>SE</u>	
Height of observation point	<u>0</u>	
Height of discharge	<u>200'</u>	
Plume color	<u>Brown</u>	
Plume background	<u>sky</u>	
Water vapor in plume?	<u>NO</u>	
Wind direction (from)	<u>E</u>	
Wind speed	<u>light</u>	
Ambient temperature	<u>75°</u>	
Discharge temperature		
Sky conditions	<u>clear</u>	



Received By: Howard Ruff (Charles Ruff)

Mississippi Department of Natural Resources
 Bureau of Pollution Control
 Visible Emissions Evaluation Record

Plant Name: HERCULES, INC.
 Address: P.O. DRAWER 1937
 City: HATTIESBURG
 Emission Point: SOUTH STACK
 Date: 26 APRIL 1983

V. E. Observer: HEIDI MOWERY
 Certification Expiration: 10/83

Set No.	Time		Opacity	
	Start	End	Sum	Average
1	10:00	10:06	220	9.17
2	10:06	10:12	215	8.96
3	10:12	10:18	195	8.13

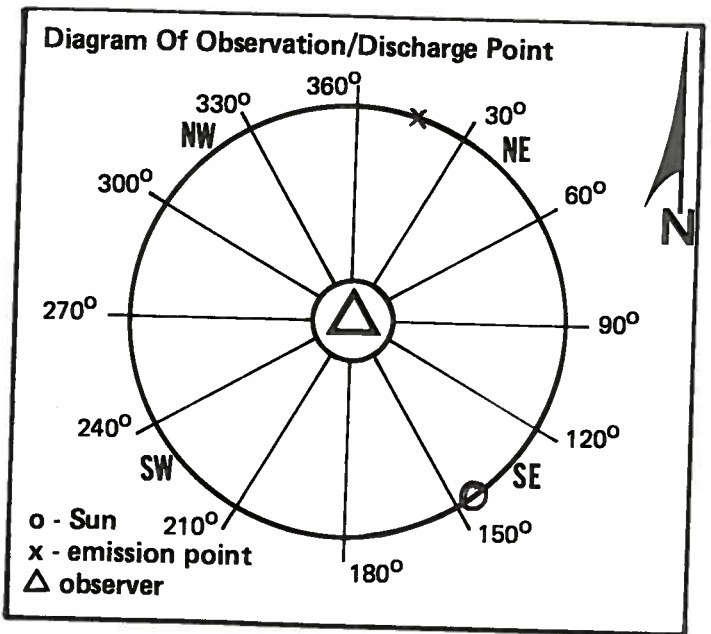
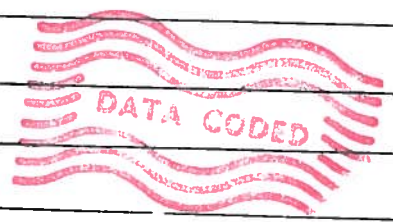
Overall Average: 8.75%

Is emission point operation normal?

	Initial	Final
Distance to discharge	<u>600'</u>	<u> </u>
Direction to discharge	<u>NNE</u>	<u> </u>
Height of observation point	<u>0</u>	<u> </u>
Height of discharge	<u>200'</u>	<u> </u>
Plume color	<u>WHITE</u>	<u> </u>
Plume background	<u>SKY</u>	<u> </u>
Water vapor in plume?	<u>NO</u>	<u> </u>
Wind direction (from)	<u>E</u>	<u> </u>
Wind speed	<u>LIGHT</u>	<u> </u>
Ambient temperature	<u>70°F</u>	<u> </u>
Discharge temperature	<u>—</u>	<u> </u>
Sky conditions	<u>CLEAR</u>	<u> </u>

Min.	Seconds			
	0	15	30	45
0	10	10	10	10
1	15	10	15	10
2	10	5	10	10
3	10	10	10	10
4	10	5	10	10
5	5	5	5	5
0	5	5	5	10
1	5	5	5	5
2	5	5	10	10
3	10	10	10	15
4	15	10	15	10
5	15	10	10	10
0	15	15	10	5
1	5	10	10	10
2	10	10	5	10
3	10	10	5	5
4	5	5	5	5
5	5	10	5	10

Remarks:



Received By: *C. Jordan*

Byron Golden

Mississippi Department of Natural Resources
Bureau of Pollution Control
Visible Emissions Evaluation Record

Plant Name: Hercules
Address: P.O. Drawer 1937
City: Hattiesburg, Ms
Emission Point: north stack
Date: 4/26/83
Is emission point operation normal? yes

V. E. Observer: m/ase
Certification Expiration: 10/83

Set No.	Time		Opacity	
	Start	End	Sum	Average
1	10:00	10:06	480	20.0
2	10:06	10:12	760	31.6
3	10:12	10:18	685	28.5

Overall Average: 29.5%

Min.	Seconds			
	0	15	30	45
0	20	15	20	15
1	20	25	25	25
2	20	15	15	15
3	20	20	20	20
4	20	20	25	20
5	20	20	20	25
0	25	15	20	20
1	20	25	25	20
2	25	25	25	25
3	25	20	20	25
4	35	50	70	65
5	55	50	40	35
0	30	30	35	30
1	25	25	25	30
2	25	25	25	30
3	25	30	30	35
4	30	25	20	25
5	25	25	45	35

Initial Final

Distance to discharge 600'

Direction to discharge NNE

Height of observation point 0

Height of discharge 200'

Plume color white

Plume background sky

Water vapor in plume? no

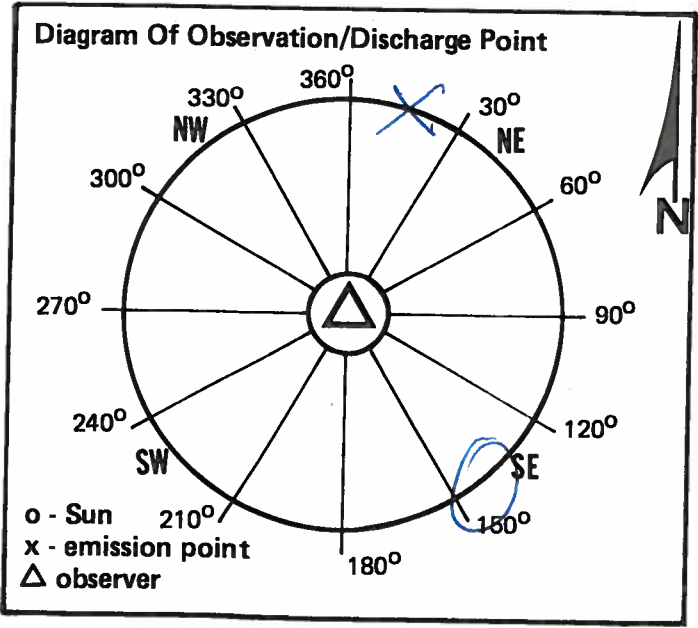
Wind direction (from) E

Wind speed light

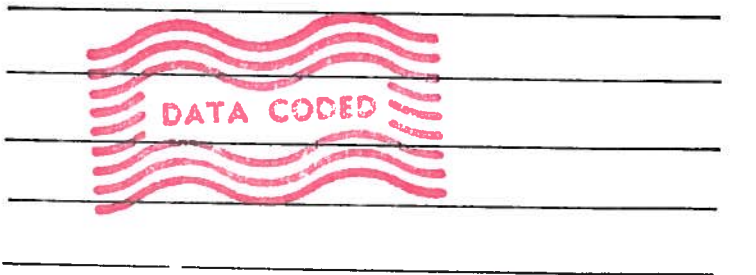
Ambient temperature 70°

Discharge temperature —

Sky conditions clear



Remarks: _____



Received By: [Signature]

Mississippi Department of Natural Resources
Bureau of Pollution Control
Visible Emissions Evaluation Record

Plant Name: Hercules, Inc

V. E. Observer: MLLase

Address: P.O. Box 1937

Certification Expiration: 6/83

City: Hattiesburg

Emission Point: woodwaste boiler stacks

Date: 3/8/83

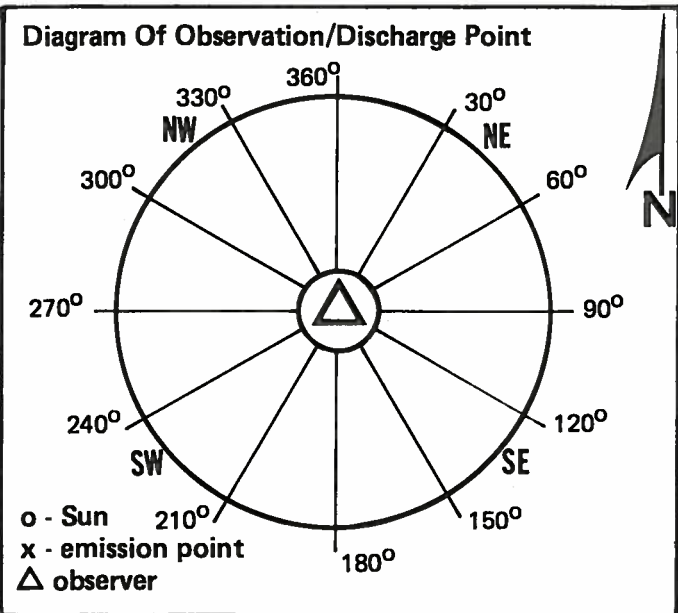
Is emission point operation normal? yes

Set No.	Time		Opacity	
	Start	End	Sum	Average

Overall Average: 5-10%

	Initial	Final
Distance to discharge	_____	_____
Direction to discharge	_____	_____
Height of observation point	_____	_____
Height of discharge	_____	_____
Plume color	_____	_____
Plume background	_____	_____
Water vapor in plume?	_____	_____
Wind direction (from)	_____	_____
Wind speed	_____	_____
Ambient temperature	_____	_____
Discharge temperature	_____	_____
Sky conditions	_____	_____

Min.	Seconds			
	0	15	30	45
0				
1				
2				
3				
4				
5				
0				
1				
2				
3				
4				
5				



Remarks: The opacities of both stacks were 5-10%.

Received By: C. S. Jordan/pls

Mississippi Department of Natural Resources
Bureau of Pollution Control
Visible Emissions Evaluation Record

Plant Name: Hercules
Address: P.O. Box 1937
City: Hattiesburg
Emission Point: north stack
Date: 11/4/82

V. E. Observer: Margaret Hase
Certification Expiration: 12/82

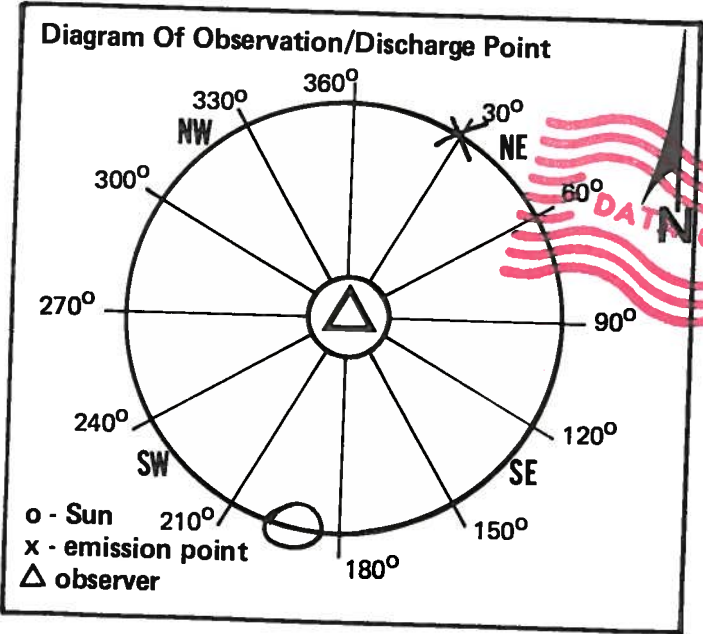
Set No.	Time		Opacity	
	Start	End	Sum	Average
1	12:35	12:41	520	21.6
2	12:41	12:47	665	27.7
3	12:47	12:53	760	31.6

Overall Average: 26.96%

Min.	Seconds			
	0	15	30	45
0	25	20	15	15
1	15	20	20	20
2	25	25	25	25
3	20	15	20	20
4	15	25	25	20
5	25	25	30	30
0	30	25	30	30
1	30	30	25	30
2	35	35	30	30
3	25	25	25	25
4	30	35	25	25
5	25	20	20	25
0	35	30	30	30
1	30	35	35	30
2	30	25	30	30
3	35	40	35	35
4	30	30	25	25
5	40	35	35	25

Is emission point operation normal? yes

	Initial	Final
Distance to discharge	<u>500'</u>	
Direction to discharge	<u>NE</u>	
Height of observation point	<u>0</u>	
Height of discharge	<u>200'</u>	
Plume color	<u>gray-brown</u>	
Plume background	<u>sky</u>	
Water vapor in plume?	<u>no</u>	
Wind direction (from)	<u>W</u>	
Wind speed	<u>light</u>	
Ambient temperature	<u>60°</u>	
Discharge temperature	<u>—</u>	
Sky conditions	<u>clear</u>	



Remarks: _____

Received By: C. Jordan/jhs

Mississippi Department of Natural Resources
Bureau of Pollution Control
Visible Emissions Evaluation Record

Plant Name: Hercules
Address: P.O. Box 1937
City: Hattiesburg
Emission Point: South Stack
Date: 11/4/82
Is emission point operation normal? yes

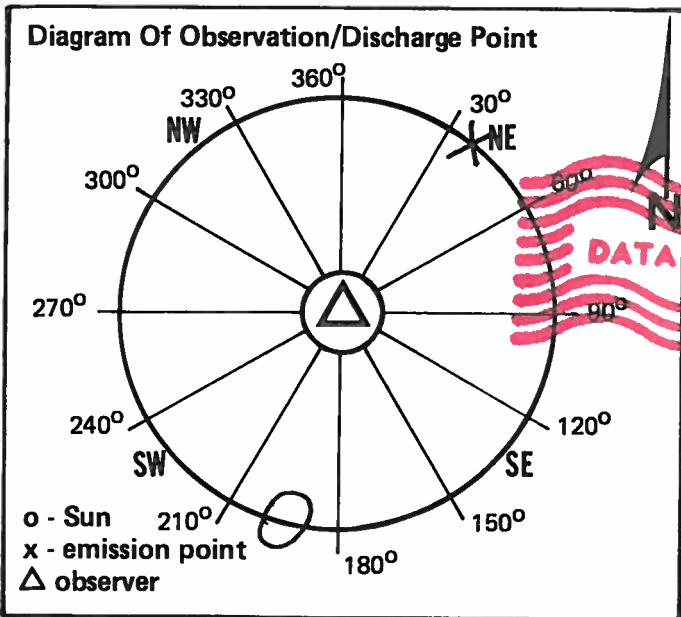
V. E. Observer: Margaret Hase
Certification Expiration: 12/82

Set No.	Time		Opacity	
	Start	End	Sum	Average
1	12:35	12:41	460	19.2
2	12:41	12:47	415	17.3
3	12:47	12:53	335	13.9

Overall Average: 16.8%

Min.	Seconds			
	0	15	30	45
0	20	20	20	30
1	25	15	20	20
2	25	25	20	20
3	15	15	15	10
4	15	10	15	15
5	20	25	25	20
0	25	20	20	25
1	20	20	20	20
2	20	20	20	20
3	15	10	10	10
4	20	20	15	20
5	15	10	10	10
0	10	10	10	15
1	20	20	15	10
2	10	10	15	10
3	20	20	15	20
4	20	15	15	10
5	10	15	10	10

Distance to discharge 500'
Direction to discharge NE
Height of observation point 0
Height of discharge 200'
Plume color grey-brown
Plume background sky
Water vapor in plume? no
Wind direction (from) W
Wind speed light
Ambient temperature 60°
Discharge temperature -
Sky conditions clear



Remarks: _____

Received By: C. Jordan/pbs

MISSISSIPPI AIR & WATER POLLUTION CONTROL COMMISSION
 TABLE EMISSIONS EVALUATION FORM

DATE: 10-25-82

Facility No. 110-0800-00

PLANT NAME: Hercules

V.E. OBSERVER: Jesse Thompson, Jr.

ADDRESS: West 7th Street

V.E. CERTIFICATION NO.: _____

CITY: Hattiesburg, MS 39401

CERTIFICATION EXPIRATION: 11/82

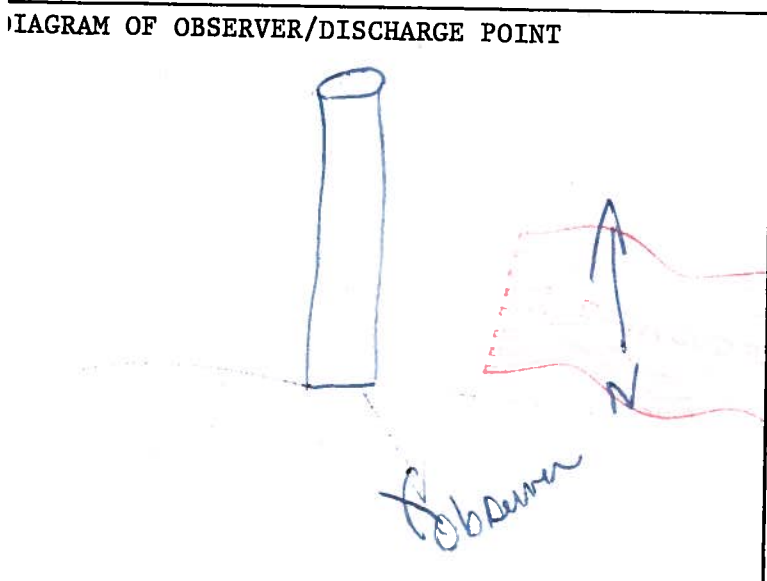
EMISSION POINT: Woodwaste BLR # 1

RECEIVED BY: J.M. Van Dyke

SET NO.	TIME		OPACITY	
	START	END	SUM	AVERAGE
1	12:50	12:56	145	6.0%
2	12:57	1:03	135	5.6%
3	1:04	1:10	245	10.2%

	INITIAL	FINAL
DISTANCE TO DISCHARGE	<u>50 yds</u>	<u>Same</u>
DIRECTION TO DISCHARGE	<u>N</u>	<u>"</u>
HEIGHT OF OBSERVATION POINT	_____	_____
HEIGHT OF DISCHARGE	_____	_____
PLUME COLOR	<u>Brown</u>	<u>"</u>
PLUME BACKGROUND	<u>Blue</u>	<u>"</u>
WATER VAPOR IN PLUME?	<u>NO</u>	<u>"</u>
WIND DIRECTION	<u>North</u>	<u>"</u>
WIND SPEED	<u>10-15 MPH</u>	<u>"</u>
AMBIENT TEMPERATURE	<u>70°</u>	<u>"</u>
DISCHARGE TEMPERATURE	<u>390°</u>	<u>"</u>
SKY CONDITIONS	<u>Clear</u>	<u>"</u>

MIN.*	SECONDS*			
	0	15	30	45
0	5	10	5	10
1	10	10	5	10
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
0	5	10	5	5
1	5	5	5	5
2	5	5	5	5
3	5	10	5	5
4	5	5	5	5
5	5	5	5	5
0	10	15	10	10
1	10	10	5	15
2	20	20	10	10
3	5	5	10	5
4	10	10	10	10
5	5	10	10	10



REMARKS: Readings taken during 1st run on Woodwaste BLR No. 1.

*IF READING TIME INTERVAL NOT AS SHOWN, SPECIFY IN REMARKS

Mississippi Department of Natural Resources
 Bureau of Pollution Control
 Visible Emissions Evaluation Record

Plant Name: Abereules
 Address: 7th Street
 City: Oshtemo
 Emission Point: Boiler Stack
 Date: 6/30/82
 Is emission point operation normal? YES

V. E. Observer: Warren Gardner
 Certification Expiration: December, 1982

Set No.	Time		Opacity	
	Start	End	Sum	Average
1	11:40	11:46	1425	59.4
2	11:46	11:52	332 285	13.8
3	11:52	11:58	320	13.3

Overall Average: 28.8

Min.	Seconds			
	0	15	30	45
0	100	100	100	100
1	100	100	80	100
2	90	80	100	100
3	90	70	50	15
4	10	10	10	10
5	20	25	30	25
0	25	25	15	5
1	5	10	15	20
2	25	10	10	10
3	10	10	10	10
4	10	10	25	25
5	15	10	10	10
0	15	15	15	20
1	15	15	10	10
2	10	15	10	10
3	15	15	15	10
4	10	10	10	15
5	15	15	15	15

Remarks: North Stack

Received By: Warren Gardner

	Initial	Final
Distance to discharge	<u>450</u>	<u>SAME</u>
Direction to discharge	<u>N</u>	
Height of observation point	<u>0</u>	
Height of discharge	<u>175</u>	
Plume color	<u>Black</u>	
Plume background	<u>White</u>	
Water vapor in plume?	<u>NO</u>	
Wind direction (from)	<u>Variable</u>	
Wind speed	<u>5-10 MPH</u>	
Ambient temperature	<u>90</u>	
Discharge temperature	<u>?</u>	
Sky conditions	<u>partly cloudy</u>	<u>V</u>

