10-29-87

State of Mississippi
Air Pollution Control
PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Hercules Incorporated
West 7th Street
Hattiesburg, Mississippi

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

Issued this 24th day of March, 19 87

MISSISSIPPI NATURAL RESOURCES PERMIT BOARD

_____

DIRECTOR, BUREAU OF POLLUTION CONTROL
MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

Expires 1st day of April, 19 90

Permit No. 0800-00001

Permit Modified: October 27, 1987

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

Plant Name: Hercules
Address: West 7th Street
City: Hattiesburg
Emission Point: North Stack
Date: 12/18/85
Is emission point operation normal ? Yes

V. E. Observer: Don Watts
Certification Expiration: 4/86

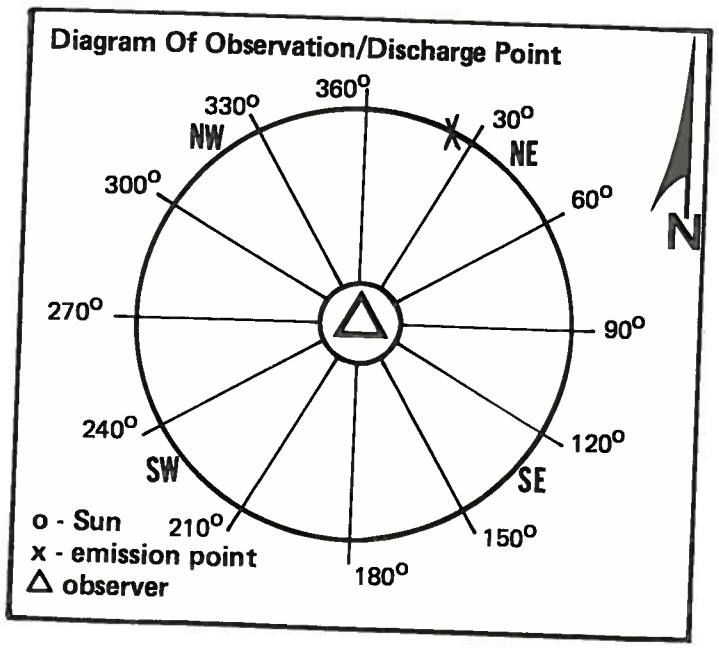
Set No.	Time		Opacity	
	Start	End	Sum	Average
1	9:45	9:51	200	8.2
2	9:57	9:57	155	6.5
3	9:57	10:03	160	6.7

Overall Average:

	Initial	Final
Distance to discharge	400 ft	
Direction to discharge	N-NE	
Height of observation point	0 ft	
Height of discharge	225 ft	
Plume color	brown-white	
Plume background	Sky	
Water vapor in plume ?	NO	
Wind direction (from)	E-SE	
Wind speed	0-5 mph	
Ambient temperature	48°F	
Discharge temperature		
Sky conditions	Overcast	

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

Diagram Of Observation/Discharge Point



Remarks: Boiler No. 4 - 32,000 #/hr steam
Grates Cleaned - 7-8 am (only boiler on line)

Received By: C Jordan

ississippi Department of Natural Resou
Bureau of Pollution Control
Visible Emissions Evaluation Record

Plant Name: Hercules Inc.
Address: West 7th Street
City: Hattiesburg, MS 39401
Emission Point: North Stack #3
Date: November 22, 1985
Is emission point operation normal ? yes

V. E. Observer: Derrick B. Allen
Certification Expiration: 4/86

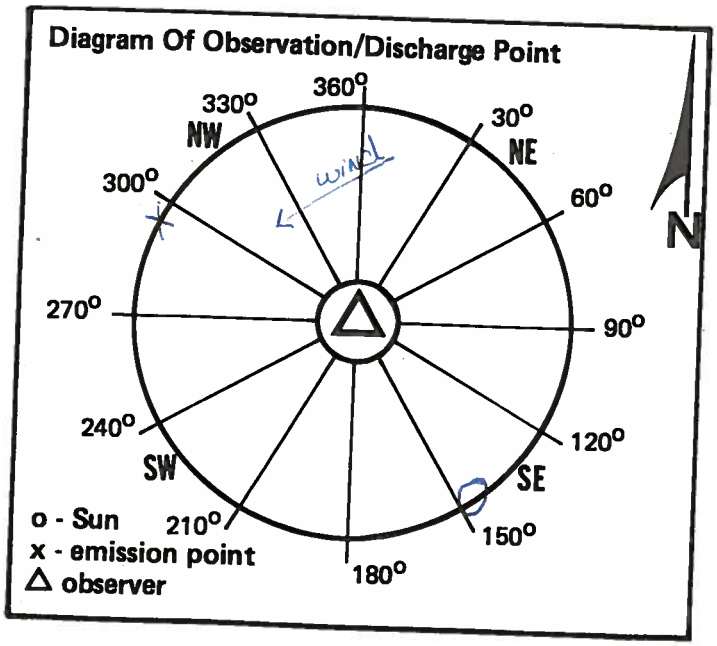
	Initial	Final
Distance to discharge	600'	
Direction to discharge	WNW	
Height of observation point	0'	
Height of discharge	235'	
Plume color	Brown	
Plume background	Sky	
Water vapor in plume ?	NO	
Wind direction (from)	N	
Wind speed	3-5mph	
Ambient temperature	75°F	
Discharge temperature	-	
Sky conditions	p Cloudy	

Set No.	Time		Opacity	
	Start	End	Sum	Average
1	1:00	1:06	310	12.9
2	1:06	1:12	270	11.3
3	1:12	1:18	280	11.7

Overall Average: 12%

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

Diagram Of Observation/Discharge Point



Remarks:

Received By:

10-21-86

STATE OF MISSISSIPPI
DEPARTMENT OF NATURAL RESOURCES
BUREAU OF POLLUTION CONTROL
P.O. BOX 10385
JACKSON, MISSISSIPPI 39209

For Agency Use
FACILITY NUMBER

Date Received

Month Day Year

APPLICATION FOR PERMIT TO CONSTRUCT AND/OR
OPERATE AIR EMISSIONS EQUIPMENT - GENERAL FORM

APPLICATION FOR: X CONSTRUCTION _____PERMIT RENEWAL - PLEASE CHECK APPROPRIATE BOX

1. Name, Address, Location, and Telephone Number
   A. Name HERCULES INC
   B. Mailing Address of Applicant
      1. Street Address or P.O. Box 1937
      2. City HATTIESBURG 3. State Ms
      4. Zip Code 39401 5. Telephone No. 601 545 3450
   C. Location of Facility
      1. Street West 7th STREET
      2. City HATTIESBURG 3. State Ms
      4. Zip Code 39401 5. Telephone No. 601 545 3450
   D. If the facility is located outside the City limits, please provide a sketch or description showing the approximate location and attach to this application.
2. SIC Code 2861
3. Number of Employees 475
4. Principal Product ROSIN DERIVATIVES
5. Principal Raw Materials ROSIN
6. Principal Process ROSIN DERIVATIVES
7. Maximum amount of principal product produced or raw material consumed per day _____
8. (A) Check here if operation which generates air pollutant emissions occurs all year X, or specify the months the operation occurs: _____
   (B) Specify how many days per week the operation occurs: 7
   (C) Specify how many hours per day the operation occurs: 24
9. If this application is for existing facility permit renewal only, has the facility been modified in any way (including production rate, fuel, and/or raw material changes) during period covered by the Operating Permit _____Yes _____No or since 1972? _____Yes _____No If Yes, give year(s) in which modification(s) occurred. _____
10. ALL APPLICATIONS MUST BE SIGNED BY THE APPLICANT.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate, and that I am the owner or chief corporate officer, or his designated representative, responsible for complying with air pollution control laws and regulations.

G R YANDLE
Printed Name of Person Signing

PLANT MANAGER
Title

10/7/86
Date Application Signed

G R Yandle
Signature of Applicant

PLEASE COMPLETE FOLLOWING PAGES WHERE APPLICABLE

FOR ALL APPLICANTS, WHETHER NEW CONSTRUCTION, EXISTING FACILITY, OR RENEWAL

CONTROL EQUIPMENT COVERED UNDER THIS APPLICATION - PLEASE CHECK ALL APPLICABLE AND INDICATE NUMBER OF UNITS.

PARTICULATE EMISSIONS CONTROL EQUIPMENT

1. Cyclone(s) _____
2. Water Scrubber _____
3. Baghouse _____
4. Electrostatic Precipitator _____
5. Venturi Scrubber _____
6. Cyclonic Baghouse _____
7. Cyclonic Scrubber _____
8. Other _____

GASEOUS EMISSIONS CONTROL EQUIPMENT

1. Water Scrubber _____
2. Activated Carbon Bed __/__
3. Other _____

WASTE DISPOSAL SYSTEMS

1. Solid Waste Incinerator _____
2. Liquid Waste Incinerator _____
3. Wood or Other Waste Fuel Recovery Boiler _____
4. Gaseous Waste Flare _____
5. Liquid Waste Flare _____
6. Other _____

Pneumatic Conveying System _____

Other (please describe)

FOR ALL APPLICANTS

FUEL BURNING EQUIPMENT
(Except for Refuse Disposal)

This form has 3 pages; each is a continuation of the equipment information from the page before. Please fill in as completely as possible, listing all fuel burning equipment. Reasons should be given explaining any data not filled in.

PAGE 1

1. Fill in company name and address, plus year for which data is given (if existing facility) at top of page. Use data for most recent calendar year available.
2. Reference Number. Use an identifying number for each boiler, furnace, kiln, etc., and use the same reference number on each of the three pages to identify information for the same unit.
3. Manufacturer and Model Number. Nameplate data for boiler, furnace, kiln, etc. Waste gas flares and stationary internal combustion engines should also be included on this form.
4. Rated Capacity in Millions of BTU per hour.
5. Type of Burner Unit. Use Codes (1*) at bottom of form. If not listed put (11) and specify.
6. Usage. Type of fuel burning equipment. Use codes (2*) at bottom of form. If not listed put (5) and specify.
7. Heat Usage. Percent of heat used for process and percent for space heating.

FUEL BURNING EQUIPMENT
(Except for Refuse Disposal)

1 FACILITY NAME	Address	for Agency use Only
HERCULES	West 7th Street Hattiesburg Ms	
FACILITY NUMBER	Information for Calender Year	Date
Emission Point 038	19 87	10/86

2 Reference Number	3 Manufacturer and Model Number	4 Rated Capacity 10^6 BTU/hr	5 Type of Burner Unit (use code 1*)	6 Usage (use code 2*)	7 Most Usage	
					% Process	% Space
	None					

1* BURNER CODES

1. Cyclone furnace
2. Pulverized coal
3. Spreader Stoker
4. Hand fired
5. Other stoker (specify)
6. Multiple port gas
7. Forced draft gas
8. Atomizing Oil (Stove of Air)
9. Atomizing Oil (Mechanical)
10. Rotary Cup Oil
11. Others (specify)

2* USAGE CODES

1. Boiler, Steam
2. Boiler, Other (specify)
3. Air Heating for Space Heating
4. Air Heating for Process Usage
5. Others (specify)

FUEL BURNING EQUIPMENT

038

(FOR AGENCY USE ONLY)

Reference Number	Stack Parameters				Fuel Data					
	Stack Height Feet	Inside Exit Dia. Feet	Exit Gas Velocity Feet/Sec.	Exit Gas Temperature Degree F.	Fuel Type	Maximum Amount Per Hour (Specify Units)	Amount Per Year (Specify Units)	Heat Content BTU/Gal, etc, (Specify Units)	Percent Sulfur	Percent Ash
	None									

FUEL SUPPLIERS:

Fuel Type	Supplier

038

FUEL BURNING EQUIPMENT

(FOR AGENCY USE ONLY)

11	12				13			
Reference Number	Air Pollution Control Equipment				Emissions (Tons/Year)			Basis of Estimate
	Manufacturer and Model Number	Type* (Use Table 1)	Efficiency		Particulate	So_2	Other (specify)	
			Design	Actual				
	None							

*For Wet Scrubber give Gallons per minute Water Flow and Water Pressure if known.

MANUFACTURING PROCESS OPERATIONS

Company Name	Address	FOR AGENCY USE
HERCULES	West 7th STREET HATTIESBURG Ms.	

FACILITY NUMBER	Information for Calendar Year	Date
Emission Point 038	19 85	6/86

Reference Number	Process or Unit Operation Name	Rated Process Capacity Tons/Hour	Feed Input		Number of Emission Points To Air	Product Output	
			Quantity Per Hour	Quantity Per Year		Quantity Per Hour	Quantity Per Year
	See CONFIDENTIAL ATTACHMENT						

(FOR AGENCY USE ONLY)

MANUFACTURING PROCESS OPERATIONS

Reference Number	Stack Data				Air Pollution Control Equipment			
	Height Feet	Inside Unit Dia. Feet	Exit Gas Velocity Feet/Sec.	Exit Gas Temperature °F	Manufacturer and Model Number	Type* (use Table 1)	Collection Efficiency	
							Design	Actual
1	25	0.5	1 (est.)	72	HERCULES, TWO STAGE ACTIVATED CARBON ADSORPTION SCRUBBER	11	100	

*For Wet Scrubbers Give Gallons per minute Water Flow and Water Pressure if known.

PAGE 3

MANUFACTURING PROCESS OPERATIONS

(FOR AGENCY USE ONLY)

11 12

Reference Number	Process Emissions*			Basis for Estimation	(Agency Comments Only)
	Particulates	Sulfur Oxides	Others (Specify by chemical composition)		
1	None Detected	None Detected		Stoichiometry	

*Please Express Emissions as Tons per Year and Pounds per Hour and Identify Units Being Used.

A

REFUSE DISPOSAL AND INCINERATION

Company Name	Information for Year	(Agency Use Only)
HERCULES	1987	
Address	Date	
WEST 7th STREET HATTIESBURG MS.	10/86	

B

Description of Waste Materials

C D E

Type (Describe)	Maximum Amount Per Day (Pounds)	Amount Per Year (Tons)	Method of Disposal 1*
TRASH (Paper etc.)	100 (est.)	10 (est.)	City Pick up / 2

If Waste Disposal is by Incineration, Specify the Following:

1. Type of Incinerator:
   - single chamber ☐
   - multiple Chamber ☐
   - Modified (describe) ☐
   - Other (describe) ☐
   - Rotary ☐
   - Flue Fed ☐

2. Manufacturer's Name: _____
   Model Number _____
   Rated Capacity _____

3. Quantity Burned: _____ Pounds / Hour _____ Type Waste
   _____ Pounds / Day
   _____ Tons / Year

4. Operating Schedule _____ Hours / Day
   _____ Days / Year

*1 Disposal Method Codes

1. Open Burning
2. Landfill (No Burning)
3. Incinerator (Complete rest of Form)
5. Burned in Boiler or Furnance
6. Other (Specify)

(AGENCY USE ONLY)

5. Auxiliary Fuel:

Type: None

Amount/Year (Specify Units): _____

Heat Content: _____

Percent Sulfur: _____

Percent Ash: _____

Supplier's Name: _____

6. Pollution Control Equipment:

Manufacturer: _____

Model Number: _____

% Efficiency: _____

Type: _____

GPM Water Flow (If Wet Scrubber): _____

7. Stack Data:

Height: _____ Feet

Inside Exit Diameter: _____ Feet

Exit Gas Velocity: _____ Feet/Sec.

Exit Gas Volume: _____ SCFM

Exit Gas Temp.: _____ $^{o}F.$

8. Estimated Emissions From Refuse Incineration:

Name:			Basis of Estimates:
Particulates	_____	Tons/Year	_____
Sulfur Oxides	_____	"	_____

ADDITIONAL INFORMATION

1. Two copies of construction site plot plan.
2. Two copies of detailed equipment drawings.
3. Two copies of a detailed explanation of the process and control equipment.
4. Two copies of a flow diagram of the of the process or operation showing control devices.

SIGNATURES: If for construction, the application must be submitted in duplicate and both copies should also be signed and stamped by an engineer registered in the State of Mississippi. If application is for Existing Facility or Renewal of Permit to Operate, registered engineer's signature not required. All signatures and stamps must be originals on all copies, not photocopies.

TYPED NAME & MISSISSIPPI REGISTRATION NUMBER

SIGNATURE OF ENGINEER REGISTERED IN MISSISSIPPI

Seal of Engineer
Registered in Mississippi

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CHARLES A. McMAHAN
TYPED NAME & MISSISSIPPI REGISTRATION NUMBER

Charles A. McMahan
SIGNATURE OF ENGINEER REGISTERED IN MISSISSIPPI

Seal of Engineer
Registered in Mississippi

State of Mississippi
Air Pollution Control
PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Hercules Incorporated
West 7th Street
Hattiesburg, Mississippi

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Issued this 23rd day of August, 19 83

MISSISSIPPI NATURAL RESOURCES PERMIT BOARD

_____

DIRECTOR, BUREAU OF POLLUTION CONTROL
MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

Expires 1st day of September, 19 86

Permit No. 0800-00001

Permit Modified: February 11, 1986 &
July 22, 1986

PART I
GENERAL CONDITIONS

1. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any air pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions or modifications which will result in new, different, or increased emission of air pollutants must be reported by submission of a new application.

2. The permittee shall at all times maintain in good working order and operate as efficiently as possible all air pollution control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

3. Solids removed in the course of control of air emissions shall be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering state waters.

4. Any diversion from or bypass of collection and control facilities is prohibited except (i) where unavoidable to prevent loss of life or severe property damage or (ii) when approved by the Mississippi Department of Natural Resources Bureau of Pollution Control Permit Board.

5. Whenever any emergency, accidental or excessive discharge of air contaminants occurs, the office of the Mississippi Department of Natural Resources Bureau of Pollution Control shall be notified immediately of all information concerning cause of the discharge, point of discharge, volume and characteristics, and whether discharge is continuing or stopped.

6. Should the Executive Director of the Mississippi Department of Natural Resources declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule.

7. The permittee shall allow the Mississippi Department of Natural Resources Bureau of Pollution Control and the Mississippi Department of Natural Resources Bureau of Pollution Control Permit Board and/or their authorized representatives, upon the presentation of credentials:

   a. To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit; and

   b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emission.

8. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
   a. Violation of any terms or conditions of this permit;
   b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
   c. A change in any condition that required either a temporary or permanent reduction or elimination of authorized air emissions.

9. For renewal of this permit the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Department of Natural Resources Bureau of Pollution Control Permit Board.

10. Except for data determined to be confidential under the Mississippi Air and Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Natural Resources Bureau of Pollution Control.

11. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

12. Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances.

13. This permit is non-transferable.

14. This permit is for air pollution control purposes only.

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 mill room, extractor house, refinery, still house, and pexite plant, Emission Point 001.

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 the Herchlor Plant, Emission Point 002.

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 the Delnav Plant, Emission Point 005.

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 the Poly-Pale Plant, Emission Point 006.

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 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 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 February 11, 1986, and lasting until September 1, 1986, the permittee is authorized to operate air emissions equipment and emit air contaminants from the Hard Resins Area, including the production of metal resinates, 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 II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning July 22, 1986, and lasting until September 1, 1986, the permittee is authorized to operate air emissions equipment and emit air contaminants from the 65 MMBTU/hr Murray MCF 3 Series 59 boiler, Emission Point 037.

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			0.44 lb/MMBTU
SO_2			59.3 TPY and 4.8 lb/MMBTU
Opacity			40%

EMISSION CHARACTERISTIC	MONITORING REQUIREMENTS		
	Measurement Frequency	Sample Type	Reporting Frequency
SO_2	See Part III, Item 2		

PART III
OTHER REQUIREMENTS

(1) For Emission Point 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.

(2) 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.

(3) 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.

(4) 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.

(5) For Emission Point 037, the following condition shall apply:

The permittee is limited to a usage of 260,925 gallons/calender year of No. 6 fuel oil with sulfur content not to exceed 2.9%. A quarterly report shall be submitted detailing the amount of fuel oil used and the fuel oil characteristics. The report shall be postmarked by the 30th day of the month following the end of the calender quarter.

(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.