

Mississippi Department of Environmental Quality Office of Pollution Control

I-sys 2000 Master Site Detail Report

Site Name: Hercules Inc

PHYSICAL	ADDRESS
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LINE 1:

613 West 7th Street

LINE 2:

LINE 3:

MUNICIPALITY: Hattiesburg

STATE CODE:

ZIP CODE:

39401-

MAILING ADDRESS

LINE 1:

613 West 7th Street

LINE 2:

LINE 3:

MUNICIPALITY: Hattiesburg

STATE CODE:

MS

ZIP CODE:

39401-

OTHER INFORMATION

MASTER ID:

002022

COUNTY:

Forrest

REGION

SRO

SIC 1:

2822

AIR TYPE:

TITLE V

HW TYPE:

LARGE QUANTITY

SOLID TYPE:

WATER TYPE: INDUSTRIAL

BRANCH:

Chemical

ECED CONTACT:

Yassin, Mohammad

BASIN:

AIR PROGRAMS

✓ SIP

☐ PSD

■ NSPS

■ NESHAPS MACT



Mississippi Department of Environmental Quality Office of Pollution Control

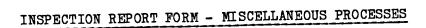
Pemits				
PROGRAM	PERMIT TYPE	PERMIT #	MDEQ PERMIT CONTACT	ACTIVE
HAZ. WASTE	EPA ID	MSD008182081		NO
AIR	TITLE V	080000001	Ketchum, Brian	YES
AIR	SOP	080000001	Ketchum, Brian	NO
WATER	NPDES - MAJOR	MS0001830	Cook, Charles	NO
WATER	NPDES - MAJOR	MS0001830	Cook, Charles	NC
WATER	NPDES - MAJOR	MS0001830	Beasley, Jerry	YES
WATER	PRE-TREATMENT	MSP091286	Tomkins, Tracy	YES
GENERAL	SARA TITLE III	MSR110153	Lavallee, Louis	YES
AIR	TITLE V	0800-00001	Glenn, Montie	NC
Compliance	e Actions			
MEDIA	ACTIVITY TYPE	SCHEDULED	COMPLETED INSPECTED B	
WATER	CEI - NA	3/17/99	3/17/99 Yassin, Mohammad	I
WATER	CMI - PRETREATMENT	11/1/99	Sharp, Loyd	
WATER	CMI - NPDES	4/1/00	Sharp, Loyd	
WATER	CMI - NPDES	11/1/99	Sharp, Loyd	
WATER	CEI - NA	9/30/00	Yassin, Mohammad	
HAZ WASTE	Compliance Evaluation Inspection	9/30/00	Yassin, Mohammad	
AIR	State Compliance Inspection	9/30/00	Yassin, Mohammad	<u> </u>
HAZ WASTE	Compliance Evaluation Inspection	6/30/99	6/30/99 Yassin, Mohammad	J
AIR	State Compliance Inspection	6/29/99	6/29/99 Yassin, Mohammad	
WATER	CEI - NA	6/30/99	6/30/99 Yassin, Mohammad	



José +

INSPECTION REPORT FORM - GENERAL

Facility Name:	HERCULES, INC.	
Address:	WEST 7TH STREET	Date: 2-21-89
	HATTIESBURG, MS. 39401	262128293037
- and Marie and Association an		To All A
Inspected By:	BECKY COMYNS, JULIE FERO	128 29 30 37 A 1989
Person Contacted	CHARLES JORDAN	E VIII
Facility No:		Color Charles
Is facility majo	f or minor? MAJOR	OI HEV
Purpose of Inspec	etion:	DATA CODED
(X) Compliance (Performance	Verification Evaluation nvestigation () VEE	
Source Degament	tus: PTO EXPIRES APRIL 1, 1990.	
mescription	: PINE ROSINS AND RESINS MANUFACTURING	FACTITMY
		MOTHITI.
Applicable Regulati	ons:	
(X) SIP () PSD () NSPS () NESHAPS	- ·	
Cite regulation be		
State Of Other	description or regulatory section number	1 Ma
ctate any permit con	ditions not being complied with and de	APC-S-1
NONE	and de	scribe noncompliance:
		The state of the s
an and and angle annually approved and anti-value to the angle and angle and an all and an angle and and an ang		
	The second secon	
andronage nationals approved to the regionage appropriate adds notice of the deposition and regional regional		



Facility Name: HERCULES, INC.	Date:	2-21-89
Facility Name:		2
Emission Point No./Name: 010/ROSIN PROCESSING	AREA	
5.2		4.8
Description of Process:		
Raw Materials: PINE STUMPS, ROSIN		
Processing Operations: (1) EXTRACT ROSIN FROM	STUMPS OF	R RECEIVE ROSIN BY
TRUCK (2) PROCESS ROSIN TO RESIN.		
	-	
Products/ByProducts: RESIN		
×		
Emissions & Control Devices: OIL SCRUBBER FOR	R EMISSIO	N POINT 012 AND 013;
NO CONTROLS ON EMISSION POINT 011.		
(Complete Appropriate Control Device Sheets)		
	3 a å å .	om of monoompliance:
Permit conditions not being complied with and	describit	On of honcompitation
ONLY EMISSION POINT 013, THE OIL SCRUBBER	SERVING	THE PEXITE PLANT,
WAS IN OPERATION. THERE WERE NO VISIBLE		
		

Facility Name: HERCULES,	INC.	Date:	2-21-89
	X		(4)
Emission Point No./Name:	030/POLY-PALE	PLANT	
	3.		E
Description of Process:			
Raw Materials: ROSIN			
		-	
Processing Operations: P	OLYMERIZE ROSIN	WITH ACID CATAL	LYST
Products/ByProducts: P	OLY-PALE		
1100000723110000001			
Emissions & Control Devi	ces: HC - SCR	UBBER	
(Complete Appropriate Co	ntrol Device Sh	eets)	
Permit conditions not be	ing complied wi	th and descript	ion of noncompliance:
THERE WERE NO VISI	BLE EMISSIONS FR	OM EITHER DOWTH	ERM (EMISSION POINT
	SSION POINT 033		
WERE NO VISIBLE EM	ISSIONS. EMISSI	ON POINT 034 HA	S BEEN ELIMINATED.
			
	. , ,		

Facility Name:	HERCULES,	INC.	Date: _	2-21-89
Emission Point		atalaaan ayan		
		8		
Description of	Process:			
Raw Materials:	ROSIN			
Processing Open	rations:	FLAKE AND DRUM ROSI	N	
Products/ByProd	ducts: N/	A		
Emissions & Con	ntrol Devic	es: SCRUBBERS ON F	LAKING OPI	ERATION.
(Complete Appro	opriate Con	trol Device Sheets)		
Permit condition	ons not bei	ng complied with and	description	on of noncompliance:
THERE WER	E NO VISIBL	E EMISSIONS FROM EITH	ER THE DRI	UMMING OPERATION
(EMISSION	POINT 041)	OR THE FLAKING OPERA	ATION (EMI	SSION POINTS 042, 043).

INSPECTION REPORT FORM - BOILERS

Facility Name: HERCULES, INC.	Date:	2-21-89
Emission Point No./Name: 050/BOILER NO.	5	
Rated Boiler Size: 156 MMBTUH		
lbs steam/hr@_	psig	
Operating Rate @ Insp: MMBTUH OR 80,000 lbs steam/hr	@ psig	
Fuel(s) Being Used: (X) Natural Gas @ () Fuel Oil, No. () Coal @ ash; () Woodwaste: (tons/hr; sulfur) Sawdust @) Shavings @) Hogged Fuel @) Bark @	Gal/hr type; % tons/hr tons/hr tons/hr
() Other Fuels, Explain:		
For Solid Fuels, Describe Fuel Stoking Metho	od:	
Scot Blowing: () Periodic () Manua () Continuous () Auto	al omatic	
Schedule: NONE		/
Air Pollution Controls: (X) None (•
Sulfur Dioxide N/A 1) VEE () CEM be/MMBTU by CEM lbs/MMBTU by CEM	t .

*NO VISIBLE EMISSIONS WERE NOTED.

Facility Name:	HERCULES,	INC.		_ Date: _	2-21-89
_					
Emission Point	No./Name:	060/VINSOL	RESINS	PROCESS	
Description of	Process:				
Raw Materials:	SEE CONFID	ENTIAL ATTAC	HMENT		
Processing Ope					
0 1					
Products/ByPro	ducts:				
11000000,25110					
Emissions & Co	ntrol Devices				
(Complete Appr	opriate Contr	ol Device Sh	eets)		
Permit conditi	ons not being	complied wi	th and d	descripti	on of noncompliance:
SCRUBBERS	s 063 AND 064	WERE REPLACE	D WITH	A MORE El	FFICIENT
SCRUBBER	(BOTH KETTLES	S VENT TO THE	E NEW SC	RUBBER).	
					062, OR FROM THE
NEW SCRU					
			6	, i	
§				,, ,, , , , , , , , , , , , , , , , , 	

Facility Name:	HERCULES,	INC.	Date: _	2-21-89
		10		1200
Emission Point	No./Name:	070/TRULINE FLAKING	G AND PACKA	GING AREA
Description of	Process:			
Raw Materials:	SEE CON	FIDENTIAL ATTACHMEN	Γ	~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Processing Ope	rations:			
around of				ii
Products/ByPro	ducts:			
Emissions & Co	ntrol Device	s: BAGHOUSE FOR E	MISSION PO	INT 072.
(Complete Appr	opriate Cont	rol Device Sheets)		
Permit conditi	ons not bein	g complied with and	description	on of noncompliance:
EMISSION	POINT 073, T	HE PANGBORN BAGHOUS	E, HAS BEEN	N ELIMINATED.
		WERE NOTED FROM THE		
#i				EMISSION POINT 072).
	 			
	,			

Facility Name: HERCULES, INC.	_ Date: _	2-21-89
	_	U.
Emission Point No./Name: 080/HARD RESINS AREA		
Description of Process:		
Raw Materials: ROSIN		
Processing Operations: PROCESSING ROSIN TO R	RESIN	
Products/ByProducts: RESIN		
Emissions & Control Devices: HC - SCRUBBER		
(Complete Appropriate Control Device Sheets)		
Permit conditions not being complied with and	descripti	on of noncompliance:
THERE WERE NO VISIBLE EMISSIONS FROM EITH	HER THE DO	OWTHERM (EMISSION
POINT 081) OR THE SCRUBBER (EMISSION POINT	NT 082).	
	····	
		**

Facility Name: HERCULES,	INC.	Date:	2-21-	89
	8		1.5	
Emission Point No./Name:	090/CONTINUOUS	ESTERIFICATION	PROCESS	AREA
	· ·		£	
Description of Process:				
Raw Materials: ROSIN				
Processing Operations:	ESTERIFICATION	**************************************		
Products/ByProducts: E	STERIFIED ROSIN			
Emissions & Control Devi	ces: NO CONT	ROLS		
(Complete Appropriate Co	ntrol Device Shee	ts)		
Permit conditions not be	ing complied with	and description	n of nonc	ompliance:
NO VISIBLE EMISSION	S WERE NOTED FROM	THE DOWTHERM (EMISSION	POINT 091);
A STEAM PLUME ONLY	WAS NOTED FROM TH	E CONTINUOUS ES	TERIFICAT	ION UNIT
(EMISSION POINT 092).			
			a.a.a.a.a.a.	
	T.A. S. S. A. A. S.			

Facility Name: HERCUL	ES, INC.	Date: _	2-21-89
		TNC HOUSE	
Emission Point No./Name:	100/HARD RESINS FLAR	TING HOUSE	
9.9	W.		
Description of Process:			
Raw Materials: N/A			
Processing Operations:	FLAKING BELT		
_			
Products/ByProducts:	FLAKE RESIN		
Emissions & Control Devi	ces: SCRUBBER AND	BAGHOUSE	
(Complete Appropriate Co	ntrol Device Sheets)		
Permit conditions not be	ing complied with and	d description	n of noncompliance:
THERE WERE NO VISIE	LE EMISSIONS FROM EI	THER THE BAG	HOUSE (EMISSION
POINT 101) OR THE S	CRUBBER (EMISSION PO	INT 102).	

Facility Name: HERCULES, INC.	Date: 2-21-89
Emission Point No./Name: 120/HYDROGEN	FURNACE
Description of Process:	
Raw Materials: NATURAL GAS	
Processing Operations: CRACK NATURAL	GAS
Products/ByProducts: HYDROGEN GAS	
Emissions & Control Devices: CO2	
(Complete Appropriate Control Device Shee	ts)
Permit conditions not being complied with NO VISIBLE EMISSIONS WERE NOTED.	and description of noncompliance:

Facility Name: HERCULES, INC.	Date:
Emission Point No./Name: 140/RESIN 731 AREA	n n
W. D. Carlotte and	20
Description of Process:	
Raw Materials: SEE CONFIDENTIAL ATTACHMEN	NT
ar and a second area.	
Processing Operations:	
Products/ByProducts:	
Emissions & Control Devices: NO CONTROLS	
(Complete Appropriate Control Device Sheets)	
Permit conditions not being complied with and	description of noncompliance:
NO VISIBLE EMISSIONS WERE NOTED.	

Facility Name: H	ERCULES,	INC.	Date:	2-21-89
				ST.
Emission Point N	lo./Name:	150/STILLS	AND DRESINATE	AREA
				8
Description of P	Process:			
Raw Materials:	ROSIN			
Processing Opera	ations:	DISTILLATION		
Products/ByProdu	icts: D	IFFERENT CUTS O	F ROSIN	
	 			
Emissions & Con	trol Devi	ces: NO EMI	SSIONS FROM PRO	OCESS (CLOSED SYSTEM)
(Complete Approp	oriate Co	ntrol Device Sh	eets)	
Permit condition	ns not be:	ing complied wi	th and descript	tion of noncompliance:
THERE WERE	NO VISIB	LE EMISSIONS FR	OM THE DOWTHER	4 (EMISSION POINT 151).

Facility Name: HERCULES, INC.	Date:	2-21-89		
Emission Point No./Name: 160/KYMENE PLANT				
Description of Process:				
Raw Materials: SEE CONFIDENTIAL ATTACHMENT				
lode-rag.				
Processing Operations:				
Products/ByProducts:				
Emissions & Control Devices: DUST COLLECTOR FOR	REMISSION	POINT 162.		
(Complete Appropriate Control Device Sheets)	 			
Permit conditions not being complied with and de	escription	of noncomp	liance	:
THERE WERE NO VISIBLE EMISSIONS FROM EITHER	R THE KETTL	E VENT WATE	ER	
ASPIRATOR (EMISSION POINT 161), OR THE DUST	COLLECTOR	(EMISSION	POINT	162)

Facility Name: HERCULES,	INC.	Date:	2-21-89
Emission Point No./Name:	170/DEFOAMER PLANT		
	460		
Description of Process:			
Raw Materials: ROSI	N		
II 91920			
Processing Operations:	MIXING		
Products/ByProducts:	DEFOAMER		
Emissions & Control Device	es: PARTICULATES; F	AG FILTER	
	e 2		
(Complete Appropriate Conf	trol Device Sheets)		
Permit conditions not being	ng complied with and de	escription	of noncompliance:
THERE WERE NO VISIBLE	E EMISSIONS FROM EITHER	R THE SILICA	A DRIER FURNACE
	, OR THE DUST BAG (EMIS		
		*	
	CONTROL OF THE CONTRO		

Facility Name:	HERCULES,	INC.	Date:	2-21-89
Emission Point	No./Name:	180/ROSIN AMINE D	PLANT	
Description of	N) (
Raw Materials:	SEE CONI	FIDENTIAL ATTACHMENT		
	are stage			
Processing Ope:	rations:			
Products/ByProducts	ducts:			
Emissions & Con	ntrol Devices	s:		
			ō.	
(Complete Appro	opriate Cont	rol Device Sheets)		
Permit condition	ons not being	g complied with and d	escription o	f noncompliance:
THERE WER	E NO VISIBLE	EMISSIONS FROM THE D	OOWTHERM	
(EMISSION	POINT 181),	THE AMMONIATION VENT	SCRUBBER	
(EMISSION	POINT 182),	OR THE AMINE REACTOR	R VENT	
(EMISSION	POINT 183).			

Facility Name: HERCULES, INC.	Date:	2-21-89
Emission Point No./Name: 230/CARBON REGENERATI	ON FURNACE	6
Description of Process:		
Raw Materials: CONTAMINATED CARBON		
Processing Operations: REGENERATE CARBON		A
Products/ByProducts: CARBON		
Emissions & Control Devices: PARTICULATES;	SCRUBBER	
(Complete Appropriate Control Device Sheets)		
Permit conditions not being complied with and de	scription	of noncompliance:
THERE WERE NO VISIBLE EMISSIONS.		
·		

INSPECTION REPORT FORM - BOILERS

Facility Name: HERCULES, INC.	Date:	2-21-89
5 0	•	
Emission Point No./Name: 240/BOILER NO. 6		=
Rated Boiler Size: 65 MMBTUH		
lbs steam/hr@	psig	
Operating Rate @ Insp: MMBTUH OR 49,000 lbs steam/hr @	psig	e e
Fuel(s) Being Used: (X) Natural Gas @ 6 () Fuel Oil, No. () Coal @	117117"	
() Other Fuels, Explain:		
For Solid Fuels, Describe Fuel Stoking Method	I:	
Soot Blowing: () Periodic () Manual () Continuous () Autom	natic	E E A
Schedule: NONE		
Air Pollution Controls: (X) None () () Cyclone () () Multiclone () Scrubber (For P		
Complete Appropriate Control Device Sheets		
	VEE () CEM s/MMBTU by CEM os/MMBTU by CEM	

*THERE WERE NO VISIBLE EMISSIONS.

Facility Name: HERCULES, INC.	Date: 2-21-89
Emission Point No./Name: 250/PARA-CYMENE UNIT	
Description of Process:	
Raw Materials: ROSIN	

Processing Operations: DEHYDROGENATION	
Products/ByProducts: DEHYDROGENATED DIPENTENE	
Emissions & Control Devices: NO PROCESS EMISSIO	NS (CLOSED SYSTEM)
(Complete Appropriate Control Device Sheets)	
Permit conditions not being complied with and de	scription of noncompliance:

Facility Name: HERCULES, INC.	Date:	2-21-89
Emission Point No./Name: 270/PARACOL PLANT		
Description of Process:		
Raw Materials: SEE CONFIDENTIAL ATTACHMENT		
55 No.		
Processing Operations:		
Products/ByProducts:		
Emissions & Control Devices: NO EMISSIONS (C	LOSED SYSTE	M)
(Complete Appropriate Control Device Sheets)		
Permit conditions not being complied with and de	escription (of noncompliance:
NO VISIBLE EMISSIONS WERE NOTED.		
		~
		

HERCULES, INC. - FORREST COUNTY 2-21-89

The following Emission Points were not in operation:

Emission Point No.	Description
020	Delnav Plant
110	Foral and Staybelite Hydrogenation Plant
130	Pilot Plant
190	Polyrad and Polyol Process Area
200	Para-Menthane Unit
210	Para-Menthane Hydroperoxide Unit
220	Sulfate Turpentine Refining Unit
260	Synthetic Pine Oil Facility

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 010/Rosin Processing Area

Description of Process:

Raw Materials: Pine stumps, rosin

Processing Operations: (1) Extract rosin from stumps or receive rosin by truck. (2) Process rosin to resin.

Products/By-Products: Resin

Emissions & Control Devices: Oil scrubber for Emission Point O12 and O13; no controls on Emission Point O11. (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

Only Emission Point 013, the oil scrubber serving the Pexite Plant, was in operation. There were no visible emissions.

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 020/Delnav Plant

Description of Process:

Raw Materials:

Processing Operations: Produce pesticide

Products/By-Products: Delnav

Emissions & Control Devices: H2S to flare (Emission Point 021); HC1 to

limestone tanks.

(Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions from the flare.

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 030/Poly-Pale Plant

Description of Process:

Raw Materials: Rosin

Processing Operations: Polymerize rosin with acid catalyst

Products/By-Products: Poly-pale

Emissions & Control Devices: HC - scrubber. (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions from either Dowtherm (Emission Point 031 and 032). Emission Point 033 has been split into two vents; there were no visible emissions. Emission Point 034 has been eliminated.

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 040/Rosin Shed

Description of Process:

Raw Materials: Rosin

Processing Operations: Flake and drum rosin

Products/By-Products: NA

Emissions & Control Devices: Scrubbers on flaking operation (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

No flaking was being done. There were no visible emissions from the drumming operation.

INSPECTION REPORT FORM - BOILERS

Facility Name: Hercules Inco	rporated Date: September 25, 1987		
Emission Point No./Name: 050	/Boiler No. 5		
Rated Boiler Size: 156 MMB OR lbs st	TUH eam/hr @ psig		
Operating Rate @ Insp: MM OR 82,0	BTUH OO_lbs_steam/hr@psig		
	Natural Gas @ 95 MCFH Fuel Oil, No @ _ Gal/hr Coal @ _ tons/hr; _ type; _ % ash; _ % sulfur Woodwaste: () Sawdust @ _ tons/hr		
() Other Fuels, Explain:			
For Solid Fuels, Describe Fuel Stoking Method:			
Soot Blowing: () Periodic () Manual () Continuous () Automatic			
Schedule: None			
Air Pollution Controls: (X) () () () Complete Appropriate Control	None () Baghouse Cyclone () ESP Multiclone Scrubber (For Particulate) Device Sheets		
Stack Emissions: Opacity Opacity Nitrogen	O_% By (X) VEE () CEM oxide lbs/MMBTU by CEM Oxides lbs/MMBTU by CEM		

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 080/Hard Resins

Description of Process:

Raw Materials: Rosin

Processing Operations: Processing

Products/By-Products: Resin

Emissions & Control Devices: HC - scrubber (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions from either the Dowtherm (Emission Point 081) or the scrubber (Emission Point 082).

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 090/Continuous Esterification Process Area

Description of Process:

Raw Materials: Rosin

Processing Operations: Esterification

Products/By-Products: Esterified Rosin

Emissions & Control Devices: No controls (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

No visible emissions from Dowtherm (Emission Point 091); steam plume only from Continuous Esterification Unit.

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 100/Hard Resins Flaking House

Description of Process:

Raw Materials: NA

Processing Operations: Flaking belt

Products/By-Products: Flake resin

Emissions & Control Devices: Scrubber and baghouse

(Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions from either the baghouse (Emission Point 101) or the scrubber (Emission Point 102).

Date: September 25, 1987 Facility Name: Hercules Incorporated

Emission Point No./Name: 120/Hydrogen Furnace

Description of Process:

Raw Materials: Natural gas

Processing Operations: Crack natural gas

Products/By-Products: Hydrogen gas

Emissions & Control Devices: CO₂ (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 150/Stills & Dresinate Area

Description of Process:

Raw Materials: Rosin

Processing Operations: Distillation

Products/By-Products: Different cuts of rosin

Emissions & Control Devices: No emissions from process.

(Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions from the Dowtherm (Emission Point 151).

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 170/Defoamer Plant

Description of Process:

Raw Materials: Rosin

Processing Operations: Mixing

Products/By-Products: Defoamer

Emissions & Control Devices: Particulate - bag filter

(Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions from either Emission Point 171, the Silica Drier Furnace, or Emission Point 172, the Dust Bag.

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 230/Carbon Regeneration Furnace

Description of Process:

Raw Materials: Contaminated carbon

Processing Operations: Regenerate carbon

Products/By-Products: Carbon

Emissions & Control Devices: Particulate - scrubber (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

There were no visible emissions.

INSPECTION REPORT FORM - BOILERS

Facility Name: Hercules	Incorporated	Date: September 25, 1987
Emission Point No./Name: 240/Boiler No. 6		
Rated Boiler Size: 65 MMBTUH OR lbs steam/hr @ psig		
Operating Rate @ Insp:	MMBTUH OR 12,900 lbs steam/h	r @ psig
Fuel(s) Being Used:	(X) Natural Gas @	15 MCFH @ _ Gal/hr hr; _ type; _ % ash; Sawdust @ _ tons/hr Shavings @ _ tons/hr Hogged Fuel @ tons/hr Bark @ _ tons/hr
() Other Fuels, Explain:		
For Solid Fuels, Describe Fuel Stoking Method:		
Soot Blowing: () Periodic () Manual () Continuous () Automatic		
Schedule: None		
Air Pollution Controls: (X) None () Baghouse () Cyclone () ESP () Multiclone () Scrubber (For Particulate)		
Complete Appropriate Control Device Sheets		
Stack Emissions: Opacity O % By (X) VEE () CEM Sulfur Dioxide lbs/MMBTU by CEM Nitrogen Oxides lbs/MMBTU by CEM		

Facility Name: Hercules Incorporated Date: September 25, 1987

Emission Point No./Name: 250/Para-Cymene Unit

Description of Process:

Raw Materials: Rosin

Processing Operations: dehydrogenation

Products/By-Products: dehydrogenated dipentene

Emissions & Control Devices: There are no process emissions

(Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None

The following Emission Points were not in operation:

Emission Point No.	Description
060	Vinsol Resins Process
070	Truline Flaking and Packaging Area
110	Foral and Staybelite Hydrogenation Plant
1 30	Pilot Plant
140	Resin 731 Area
160	Kymene Plant
180	Rosin Amine D Plant
190	Polyrad and Polyol Process Area
200	Para-Menthane Unit
210	Para-Menthane Hydroperoxide Unit
220	Sulfate Turpentine Refining Unit
260	Synthetic Pine Oil Facility
270	Paracol Plant

sissippi Department of Natural Resource **Bureau of Pollution Control**

Visible Emissions Evaluation Record

Plant Name: Hercul	les Inc		V. E. O	bserv e r:	Don	Watt	D
Address: West	7th Str	eet	Certific	ation Expi	ration: <u>//</u>	0/87	
City: Hattlesbur	9		Set No.	Time		Opac	
Emission Point: Baile	No. 5	(050)		Start	End	Sum	Average
Date: 9/25/8	7			10:33	10:39	0	0_
is emission point operation n	ormal? Ye	4					
	Initial	Final			DATA	CODED	
Distance to discharge	30.pt						
	V			OCCUPATION OF STREET	Seconds		
Height of observation point	Opt_		Min.	0	15	30	45
Height of discharge	50.At _		0	10	9	10	0
Plume color		4	2	Ó	0	8	0
Plume background	sky_		3	8	0	8	0
Water vapor in plume ?	NO_		5	0	10		10
Wind direction (from)	5-SE		1	and replaces to the same			
Wind speed	D-5mph	-	3				
Ambient temperature	65°F		5	Part Sent Sent Sent Sent Sent Sent Sent Sen			
Discharge temperature	331°F		0				
Sky conditions	Clean	····	2				
Diagram Of Observation/Dis	schouse Doint		4				
330° 360°		1	5				
NW	NE 30°	A	Remark	S:			
3000	60'	·	-				
					- 8		
270°		90°				<u> </u>	
240° SW	SE 12	200					
o - Sun 210°	150°						
x - emission point ∆ observer) ^o		D 323		100	restau	,)
			Receive	d By:	70	uxuu	

Sissippi Department of Natural Resource Bureau of Pollution Control Visible Emissions Evaluation Record

Plant Name: Hercyles Inc		V. E. Ol	oserver:	Don	Watt	P
Address: West 74h St	••	Certifica	ation Expira	ation:	10/87	
city: Hattiesburg		Set No.	Time Start	End	Opac Sum	city Average
Emission Point: Boiler No. 6	(240)					
Date: 9/0 25/87			10:33	10:39	0	0
Is emission point operation normal?	les_			1000		\
Initial	Final		L	0	NTA CODED	Tage
Distance to discharge 100ff				Name of Street, or other transfer, or other transfe		
014		D.41:		Seconds	30	45
Height of observation point		Min.	0	15	30	45
Height of discharge 50 pt		1	0	0	0	0
Plume color		3	+8	1-8	0	10
Plume background SKY		4	10	9	8	0
Water vapor in plume?		5	10	10	10	
Wind direction (from) $5-5E$		2				
Wind speed O-5mp4	R	3				
Ambient temperature 659		5				
Discharge temperature 4290F		1		-		+
Sky conditions Clear	•	2				
Diagram Of Observation/Discharge Point		5			+	1.
270° 240° SW 0 - Sun 210° 150°	90° N	Remark	S			
x - emission point 180° ∆ observer				10	my all	
		Receive	d By:C	- H	MISSEL	<u></u>

Forest

INSPECTION REPORT FORM - GENERAL

Facility Name: Hercules Incorporated Date: September 25, 1987	
Address: West 7th Street Hattiesburg, Mississippi 39401	
Inspected By: Don Watts	
Person Contacted: Charles Jordan	
Facility Number: 110-0800-00001	
Is Facility Major or Minor: Major	
Purpose of Inspection:	
(X) Compliance Verification () O&M () Performance Evaluation () VEE () Complaint Investigation (X) Annual () Surveillance () Follow-Up () Other, Explain	
Current Permit Status: Permit to Operate expires April 1, 1990.	
Source Description: Pine rosins and resins manufacturing facility	
Applicable Regulations:	
(X) SIP () PSD () NSPS () NESHAPS	
Cite regulation by description or regulatory section number: APC-S-1.	

State any permit conditions not being complied with and describe noncompliance:

None.

Forrest

INSPECTION REPORT FORM - GENERAL

Facility Name:_	HERCULES, INC.			Date:	4-24-86
Address:	WEST 7TH STREET	276.5		-	
-	HATTIESBURG, MS.	39401			
		1)		0	
Inspected By:	REBECCA COMYNS, DETR	ICH B. A	LEN 14	X	
Person Contacte	d: LARRY POLK				
Facility No:	110-0800-00001				
Is facility majo	or or minor? MAJOH	2		1119	
Purpose of Inspe	ection:				N. P.
() Performance		(X) (X) ()	O&M VEE Annual Follow-up		
Current Permit S	tatus: PTO EXPIR	RES NOVEM	BER 1, 198	6.	
Source Descripti	on: PINE RESINS	MANUFACT	URING FACI	LITY.	
		E N			
Applicable Regul	ations:				(4)
SIP DESCRIPTION NSPS NESHAPS	•				
ite regulation	by description or re	gulatory	section nu	mber:	
	conditions not being				he noncompliance
	OLK STATED THE PLANT				
NATURA	L GAS IN APPROXIMATE	LY TWO W	EEKS.		
5/13/86 PA	HONE CALL F	Rom	C. JORD	AN -	6 NO PIANIS
TO CONVERT	#4 70 BAS:	HOWEVE		W BA	B POLLED
HAS BEGU	U OPERATION			-/-	- 41/1/2012
					2 4
	*				

Facility Name: HERCULES,	INC.	Date:	4-24-86	1723
Emission Point No./Name:	II Print F Guestination Till selected the second of the second of the selected the second of t	The state of the s		
Description of Process:				
Raw Materials: RESINS.	, ADDITIVES	am die Christianipolity gerone age a	andria and the second second and the	
Processing Operations: HY	The second section of the second section of the second section	IFICATION		
Products/ByProducts: RESI			RESIDUES.	
Emissions & Control Devices	· c	BOILERS WIT	H TWO STACKS.	er direct top compa
(Complete Appropriate Conti	g complied with and	description	of noncompliance	:
	en de la companya de	all majorith univ empropropip auto approxime reducer		etipedilingratificati
Appropriate the state of the st	and the control of th	* ** ** *** *** **** **** ****	em eller om en	
				NO BEE

Facility Name: HERCULES, I	INC.	Date: 4-24	-86
B 2 8			: : : : : : : : : : : : : : : : : : :
Emission Point No./Name:_	009/BOILER #1		
ÓΡ	_ MMBTUH _ lbs steam/hr @ _3	00 psig	
Operating Rate @ Insp:	MMBTUH 100 lbs steam/hr	ā 295 — — — — — — — — — — — — — — — — — — —	
Fuel(s) Being Used: (((() () () () () () () ()) Natural Gas @) Fuel Oil, No.) Coal @ ash;	MCFH @ tons/hr; ulfur Sawdust @ Shavings @ Hogged Fuel @ Bark @	Gal/hr type; % tons/hr tons/hr tons/hr tons/hr
() Other Fuels, Explain:			
For Solid Fuels, Describe		•	
Soot Blowing: (X) Period: () Contine Schedule:	ic () Manual uous () Autom	natic	3
Air Pollution Controls: (X (((Complete Appropriate Contro) Cyclone ()) Multiclone) Scrubber (For P	Baghouse ESP articulate)	
Sulfur I	21.6 % By (X) Dioxide N/A lbs n Oxides N/A lb	VEE () CEM /MMBTU by CEM s/MMBTU by CEM	

Facility Name: HERCULES,	INC.	Date: 4	-24-86	
84 W W				+
Emission Point No./Name:_	010/BOILER #4			
Rated Boiler Size: OR 100,000	_ MMBTUH _ lbs steam/hr @	psig		
Operating Rate @ Insp: OR	MMBTUH	100		
20,0	000 lbs steam/hr	285 ps	sig	
Fuel(s) Being Used: ((COMBINED TO) Natural Gas @	MCFH @ tons/hr; alfur Sawdust @ Shavings @ Hogged Fuel Bark @	Gal/hr type; tons/hr tons/hr tons/hr tons/hr	6
() Other Fuels, Explain:		-		
For Solid Fuels, Describe		:		
Soot Blowing: (X) Period () Contin	ic () Manual uous () Autom	atic		
Schedule: ONCE/SHIF	T, 3 TIMES DAILY			•
Air Pollution Controls: ((((Complete Appropriate Controls)) Multiclone) Scrubber (For P	Baghouse ESP articulate)	2	
Sulfur 1	5.0 % By (X) Dioxide N/A lbs n Oxides N/A lbs	MMBTU by CE	IM .	

Forest

INSPECTION REPORT FORM - GENERAL

Facility Name	HERCULES, INC.	Date:	3-31-86
Address:	WEST 7TH STREET	-	
	HATTIESBURG, MS. 39401		
•			
Inspected By:	DETRICH B. ALLEN		
Person Contac	ted: LARRY POLK ·	T. Comments	
Facility No:_	110-0800-00001	18	
Is facility m	ajor or minor? MAJOR	Miller	,
Purpose of Ins	spection:		
() Performs () Complain () Surveill	ance Verification (X) O&M ance Evaluation (X) VEE at Investigation () Annua lance () Follo		el a
Current Permit	Status: PTO EXPIRES NOVEMBER 1, 198	6.	
	ption: PINE RESINS MANUFACTURING FA		
Applicable Reg	ulations:	•	120
() SIP () PSD () NSPS () NESHAPS	· · · · · · · · · · · · · · · · · · ·		
ite regulation	n by description or regulatory section	an mumban.	
	it conditions not being complied with		_
-	NONE	and descri	be noncompliance:
	NONE		
			1
			2

Facility Name: HERCULES, INC. Date: 3-31-86
Emission Point No./Name:
Description of Process:
Raw Materials: RESINS, ADDITIVES
Processing Operations: HYDROGENATION, STEARIFICATION
roducts/ByProducts: RESINS AND PIGMENTS/LIGHT OILS AND RESIDUES.
missions & Control Devices: FOUR WOODWASTE BOILERS WITH TWO STACKS.
NO CONTROLS.
Complete Appropriate Control Device Sheets) .
ermit conditions not being complied with and description of noncompliance: NONE

Facility Name:_	HERCULES, INC.	Date:	3-31-86	
				_
Emission Point	No./Name: 010/BOILER NO.	4		
				-
Rated Boiler Si				
	OR 100,0001bs steam/hr@			
0		psig	3	
Operating Rate (Insp: MMBTUH			
	35,000 lbs steam/hr	@ 285	psig	
Fuel(s) Being Us	sed: () Natural Gas @ _	MOT	nr	
	() Fuel Oil, No. () Coal @	MCF @	Gal/hr	
	() Coal @	tons/hr;	type; %	
	ash; %s (X) Woodwaste: ()	ulfur Sawdust @	ton- /	
	()	Shavings	tons/hr	
	(X) Woodwaste: () COMBINED TOTAL: () 2½ TONS/HR. ()	Hogged Fu	el@tons/hr	
() Other Fuels	, Explain:			
For Solid Fuels,	Describe Fuel Stoking Method			
	1000000	••		
				
Soot Blowing: ()	$oxed{X}$) Periodic (X) Manual) Continuous () Autom	, Y2	e e	
Schedule:	ONCE/SHIFT, 3 TIMES D	AILY.	•	
Air Pollution Con	No.			-
	() Cyclone ()	Baghouse ESP		
	() Multiclone			
Complete Appropri	() Scrubber (For Partie of Partie o	articulate)	
			8	
Stack Emissions:	Opacity 5.0 % By (X)		CEM	
	Sulfur Dioxide N/A lbs. Nitrogen Oxides N/A lbs.	MMBTU by	CEM	
	The Indiana	MMBTU by	CEM	

Facility Name: HERCULES, INC.	Date: _	3-31-86
Emission Point No./Name: 005/BOILER #5	5	
Rated Boiler Size: OR 100,000 lbs steam/hr	3 00 psi	g
Operating Rate @ Insp: MMBTUH OR 31,000 lbs steam	/hr @ ²⁸⁵	psig
() ()	tons/hr; sulfur Sewdust 6	Gal/hr type; % tons/hr el@tons/hr tons/hr tons/hr
For Solid Fuels, Describe Fuel Stoking Me		
Soot Blowing: (X) Periodic (X) Man () Continuous () An Schedule:	nual utomatic	
Air Pollution Controls: () None () Cyclone () Multiclone () Scrubber (Fo Complete Appropriate Control Device Sheets	ir Partioulate))
Stack Emissions: Opacity 0 % By (Sulfur Dioxide N/A Nitrogen Oxides N/A	lbs/MMBTU bv	CEM

ssissippi Department of Natural Resoul Bureau of Pollution Control Visible Emissions Evaluation Record

Plant Name: dercule), Inc.	· · · · · · · · · · · · · · · · · · ·
Address: West 71	h Street	
City: Hattieshu	ng, Ms.	39401
Emission Point:	1 Stack	
Date: 3-31-86		
Is emission point operation n	ormal?	yo
	Initial	Final
Distance to discharge	500	
Direction to discharge	<u> </u>	
Height of observation point	0	
Height of discharge	125'	
Plume color	Colorless	
Plume background	SKY	
Water vapor in plume ?	_ <i>N</i> 。	
Wind direction (from)	SE	
Wind speed	2-5meh	
Ambient temperature	<u> 82°</u>	
Discharge temperature	-	
Sky conditions	p. cloudy	<u> </u>

Diagram Of Observation	
300° NW	NE 60°
270°	90°
240°	120°
o - Sun 210	SE 150°
x - emission point △ observer	¹ 180 ^o

Sky conditions

V. E. Observer:	rich B. allen	
Certification Expiration:	April 1986	20

Set No.			Opacity	
	Start	End	Sum	Average
i	1:36	1:42	120	5
2	1:42	1:48	120	5
3	1:48	1:54	120	5

Overall Average: _

		Seconds		
Min.	0	15	30	45
0 1 2 3 4 5 0 1 2 3 4 5 0 1 2 3 4 5 5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5	5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1	.5	5	5	5
2	5	5	5	5
3	5	3	5	5
4	_5	5	5	5
5	5	5	5	5
ō	5	5	5	5
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
0	5	5	5	5
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5
5	5	_5	5	5

Remarks:	 -	·		
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			ye in Was	

Don W

INSPECTION REPORT FORM - GENERAL

Facility Name	HERCULES, INC.	Date: 2-18-86
Address:	WEST 7TH STREET	60 to 14 (00 to 18)
***************************************	HATTIESBURG, MS. 39401	The state of the s
er Miller vollen vergelspreise		
Inspected By:	DETRICH B. ALLEN	
Person Contac	ted: LARRY POLK	
Facility No:_	110-0800-00001	Anthrothed the average to the page of
Is facility me	ajor or minor? MAJOR	
Purpose of Ins	spection:	· · · · · · · · · · · · · · · · · · ·
() Performs () Complain () Surveill	ance Evaluation (X at Investigation () 0&M) VEE) Annual) Follow-up
Current Permit	Status: PTO EXPIRES MAY	1, 1986.
	otion: PINE RESINS MANUFAC	
Applicable Reg	ulations:	1
() SIP	39	
() PSD () NSPS		•
() NESHAPS		8
Cite regulatio	n by description or regulate	ory section number:
State any perm	it conditions not being comp	plied with and describe noncompliance
N	ONE, TO MY KNOWLEDGE.	
		12-02-100-100-100-100
		The state of the s
	AND THE PERSON AND A STATE OF THE PERSON AND	The state of the s
		

Facility Name: HERCULES, I	NC.	Date:	2-18-86
Emission Point No./Name:			
Description of Process:	, 2		
Raw Materials: RES	SINS, ADDITIVES	*	
		060	
Processing Operations: HYDROGH		ATION	
Products/ByProducts: RESINS	AND PIGMENTS/LIG	HT OILS A	ND RESIDUES
	- The state of the		
Emissions & Control Devices:	FOUR WOODWASTE	BOILERS W	ITH TWO STACKS;
NO CONTROLS.	Wes 1		
(Complete Appropriate Control I	Device Sheets) .		
Permit conditions not being con	mplied with and de	scription	of noncompliance:
NONE	reit. «Cilina diju valikangih cilina silamaka e siyan sajunda e diju ayan saju sa sa sayan saya sa		
			ander anderstein ein einer ein einer einer einer der eine einer einer eine eine eine eine
			- The Committee of the
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nagun dipaghindhindhungu unigu a dhungu unigu aligu al			
The street of th			

Facility Name: HERCULES, INC. Date: 2-18-86	
Emission Point No./Name: 010/BOILER NO. 4	
Rated Boiler Size: OR 100,000 lbs steam/hr psig	
Operating Rate @ Insp: MMBTUH OR 22,000 lbs steam/hr @ 285 psig	
Fuel(s) Being Used: () Natural Gas 3 MCFH () Fuel Oil, No. @ Gal/hr () Coal @ tons/hr; type; ash; / sulfur (X) Woodwaste: () Sawdust @ tons Shavings @ tons COMBINED TOTAL: () Hogged Fuel @ 80 TONS/HR. () Bark @ tons/hr	
For Solid Fuels, Describe Fuel Stoking Method:	
Soot Blowing: (X) Periodic (X) Manual () Continuous () Automatic Schedule: ONCE/SHIFT, 3 TIMES DAILY	120
Air Pollution Controls: () None () Baghouse () Cyclone () ESP () Multiclone () Scrubber (For Particulate) Complete Appropriate Control Device Sheets	
Stack Emissions: Opacity 7.6 % By (X) VEE () CEM Sulfur Dioxide N/A lbs/MMBTU by CEM Nitrogen Oxides N/A lbs/MMBTU by CEM	

Facility Name:	HERCULES, INC.	Date: 2	-18-86
Emission Point No.	/Name: 005/BOILER #5		
Rated Boiler Size:	MMBTUH OR 100,000 lbs steam/hr	300 psig	
Operating Rate @ I	nsp: MMBTUH OR 42,000lbs steem/		:
Fuel(s) Being Used	() Fuel Oil, No. () Coal @ ash;	tons/hr; sulfur Sawdust @ Shavings @	tons/hr
() Other Fuels,	Explain:		
For Solid Fuels, D	escribe Fuel Stoking No.		
Schedule:) Periodic (X) Nam) Continuous () Au	ual .	
Air Pollution Cont	rols: () None () Cyclone () Multiclone () Scrubber (Fote Control Device Sheets	r Particulate)	*
	Opacity O % By (Sulfur Dioxide N/A Nitrogen Oxides N/A) VEE () CEM	4

INSPECTION REPORT FORM - GENERAL

Facility Name: Hercules Incorporated Date: January 21, 1986 Address: West 7th Street Hattiesburg, Mississippi Inspected By: Don Watts Person Contacted: Charles Jordan Facility Number: 110-0800-00001 Is Facility Major or Minor: Major Purpose of Inspection: (X) Compliance Verification (X) Performance Evaluation () Complaint Investigation Surveillance Other, Explain Current Permit Status: PTO expires September 1, 1986. PEP for Emission Point 015 expires January 28, 1986. Source Description: Resin/Rosin Processing Applicable Regulations: SIP PSD NSPS NESHAPS Cite regulation by description or regulatory section number: APC-S-1 State any permit conditions not being complied with and describe noncompliance: None.

Construction of the new Gas-fired Boiler (Emission Point 037) is almost

DW: els

complete.

Facility Name: Hercules Incorporated Date: January 21, 1986
Emission Point No./Name: O10/Boiler No. 4
Rated Boiler Size: MMBTUH OR 100,000 lbs steam/hr@ psig
Operating Rate @ Insp: MMBTUH OR
Fuel(s) Being Used: () Natural Gas @MCFH () Fuel Oil, No @Gal/hr () Coal @tons/hr;type;% ash;
() Other Fuels, Explain:
For Solid Fuels, Describe Fuel Stoking Method:
Soot Blowing: () Periodic () Manual () Continuous () Automatic
Schedule: Grates cleaned once per shift. Cleaning began at 7:30 and is still in progress.
Air Pollution Controls: () None () Baghouse
Section Should
Stack Emissions: Opacity 10.8 % By (X) VEE () CEM Sulfur Dioxide lbs/MMBTU by CEM Nitrogen Oxides lbs/MMBTU by CEM

DW:els

Facility Name: Hercules Incorporated Date: January 21, 1986

Emission Point No./Name: 015/Hard Resins Area

Description of Process:

Raw Materials: Tall oil rosin adduct, toluene, metal oxides

Processing Operations: Reaction in batch reactor.

Products/By-Products: Metal resinates

Emissions & Control Devices: Hydrocarbons are controlled by total condensers. (Complete Appropriate Control Device Sheets)

Permit conditions not being complied with and description of noncompliance:

None.

This process was operating satisfactorily. A PTO will be issued for this Emission Point as soon as possible.

DW: els