

November 9, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED NO. P 814 346 171



C. Adam Smith
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39289-0385

Dear Mr. Smith:

Please find the attached letter and mail receipt for the application filed on September 28, 1989.

Please make the following change. Our Plant Manager is Mr. P. W. Kirkendall.

Very truly yours,

Charles S. Jordan

Environmental Supervisor

CSJ:ml

cc: P. W. Kirkendall



September 28, 1989

No. 814 346 163
CERTIFIED MAIL RETURN RECEIPTS REQUESTED

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Watts:

Please find our permit renewal with a confidential section attached.

Very truly yours,

Charles 5. Jordan

Environmental Supervisor

CSJ:ml 25

Attachment

SENDER: Complete items 1 and 2 when additional s 3 and 4. Put your address in the "RETURN TO" Space on the revers card from being returned to you. The return receipt fee will protect to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) requests 1. Show to whom delivered, date, and addressee's additional service(s) requests (Extra charge)	se side. Failure to do this will prevent this ovide you the name of the person delivered services are available. Consult postmaster ed. dress. 2. Restricted Delivery (Extra charge)
3. Article Addressed to: Mr. Don Walls Bureau of Pollution Control P.O. HOX 10385 Jackson, MS. 39209	4. Article Number S
5. Signature — Address X 6. Signature — Agent X. Journal of Delivery 7. Date of Delivery	8. Addressee's Address (ONLY if requested and fee paid)
PS Form 3811, Mar. 1988 *	-865 , DOMESTIC RETURN RECEIPT



MISSISS DEPARTMENT OF NATURAL RES **Bureau of Pollution Control** P.O. Box 10385 Jackson, Mississippi 39289-0385

(601) 961-5171



November 6, 1989

Mr. G. R. Yandle, Plant Manager Hercules, Inc. P. O. Box 1937 Hattiesburg, Mississippi 39401

Dear Mr. Yandle:

Re: Operating Permit No. 110-0800-00001 Hattiesburg, Mississippi

This letter is for the purpose of alerting you to the fact that the referenced permit expires on April 1, 1990. If you wish the permit to be considered for renewal, you will need to file a new application. Application forms are enclosed.

If you have any questions, please advise.

Very truly yours,

C. Odam Smith

C. Adam Smith South Air Emission Section

CAS:cdh Enclosure



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES Bureau of Pollution Control

P.O. Box 10385 Jackson, Mississippi 39289-0385 (601) 961-5171



MEMORANDUM

FILE COPY

Operating/Modification

TO:

Dwight K. Wylie

FROM:

Don Watts

RE:

Hercules, Incorporated

Facility No. 110-0800-00001

Forrest County Major/South

For May 9, 1989, Permit Board

DATE:

April 25, 1989

Hercules has operated a new process area, the Neuphor process, under a PEP. Emissions testing has been performed, and no problems are indicated. Therefore, I recommend that the Operating Permit be modified to incorporate this new emission point.



January 10, 1989

JAN 11 1989

Dept. of Natural Resources
Bureau of Pollution Control

NO. P 814 346 317 CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Sir:

In reference to Operating Permit No. 0800-00001, please find the attached semi-annual report detailing all work done for emission point 130.

We will continue to submit this report on a semi-annual basis.

Very truly yours

C. S. Fordan

Environmental Supervisor

CSJ:sj 1001sj-2

Attachments

cc: P. W. Kirkendall without attachment

CC: Preston Trotter David Linde

Hattiesburg, MS January 6, 1989

To: Charlie Jordan

From: Sushil Prem

OPERATING PERMIT NO. 0800-00001

Re the above permit, Part III, other requirements, (3), the attached semi-annual report is submitted. This report is for July 1, 1988 through Dec. 31, 1988.

SP:sp

Attachment

File: Pilot Plant holder

Suphil Prem.

EQUIPMENT	DAYS MATERIALS	PRODUCT	POTENTIAL CONTROL EMISSIONS EQUIPME	TYPE
<u>KETTLE</u> A	2 See confidential attachment	Resin	Water of reaction Condense Para tertiary butyl phenol Para formaldehyde	r Vapors disch. in water
В	4 See confidential attachment	*5	Water of reaction Condense Nonyl phenol Para formaldehyde	r Vapors disch. in water

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RECEIVED

AUG 29 1988

Dept. of Natural nesources Bureau of Pollution Control

NO. P 814 346 323 CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Watts:

The purpose of this letter is to inform you of the following changes necessary to comply with Hercules Safety and loss prevention standards.

We propose to replace two, obsolete, fire tube dowtherm boilers (one million Btu/hr, each) at our Poly-pale plant with one two million Btu/hr dowtherm boiler. The new efficiently designed dowtherm boiler will also be located a safe distance from the Poly-pale plant.

If I can answer any additional questions please call me.

Very truly yours,

Charles Fordan

Environmental Supervisor

CJ:sj 1001sj-2



August 22, 1988

P 814 346 321 CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Don Watts Air Division Bureau of Pollution Control P. O. Box 10385 Jackson, MS 39209 AUG 2 4 1988

Dept. of Adura discussion
Bureau of Pollution Scatter

Dear Mr. Watts:

In reference to Operating Permit No. 0800-00001 and your August 19, 1988 letter, please find the attached semi-annual report detailing all work done for emission point 130.

We will continue to submit this report on a semi-annual basis.

Very truly yours,

Charles S. Jordan

Environmental Supervisor

CSJ:sj jordan:19

Attachments

CC: Preston Trotter David Linde

Hattiesburg, MS August 15, 1988

To: Charlie Jordan

From: Sushil Prem

OPERATING PERMIT NO. 0800-00001

Re the above permit, Part III, other requirements, (3), the attached semi-annual report is submitted. This report is for Jan. 1, 1988 through June 30, 1988.

SP:sp

Attachment

Suchil Prem.

		EQUIPMENT	DAY:	S MATERIALS	PRODUCT	POTENTIAL EMISSIONS	CONTROL EQUIPMENT	TYPE VENT	
*	* 90	POLYMERIZER							
	e *	A	6	See Confidential Attachment	Polymer	Diclyclopentadiene Cyclopentadiene	Condenser	Vent pipe	
		<u>KETTLE</u>						1080	
		A	2	See Confidential Attachment	Resin	Water of reaction of Para tertiary buty phenol Para formaldehyde	1	Vapors disch. in water	
	72	В	5	See Confidential Attachment		Water of reaction (Diethylene glycol		Vapors disch. in water	

e g

§



June 17, 1988

CERTIFIED MAIL RETURN RECEIPT REQUESTED
P 004 497 687

RECEIVED

JUN 22 1988

Dept. of Natural Resources Bureau of Poliution Control

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Watts:

Operating Permit No. 0800-00001

Please find the enclosed emissions testing data and storage tank data forms as required by Part III, other requirements, Item (8).

Enclosed are:

- (1) October 6, 1987 letter outlining the scope of the work requirements, with an update.
- (2) Emissions testing data.
- (3) Storage tank data forms.

As discussed in our phone conservation, when you receive this information packet please call me at your convenience to discuss if any additional information may be needed to complete this requirement.

Very truly yours,

Charles S. Jordan

Environmental Supervisor

CSJ:ml jordan/4

Enclosure

BONNER ANALYTICAL TESTING COMPANY RT. 14, BOX 509 HATTIESBURG, MS 39402 (601)264-2854

June 20, 1988

Hercules, Inc. Charlie Jordan P.O. Drawer 1937 Hattiesburg, MS 39401

Dear Mr. Jordan:

We have delivered under separate cover the results of point source emission analyses performed at the Hercules, Inc., Hattiesburg, MS manufacturing plant.

All analyses are complete except analyses for Maleic Anhydride concentration at location 038 and 082. As you are aware there is no published method for this analytical parameter.

Our attempts at quantitating Maleic have met with limited success thus far.

We will continue work on the development of an acceptable methodology for this parameter.

Analysis will be performed when we have developed an effective method.

Sincerely,

Michael S. Bonner, Ph.D.

BONNER ANALYTICAL TESTING COMPANY

TABLE OF CONTENTS

- I. 013 Pexite Plant Oil Scrubber A. EPA Method 25 - VOC
- 11. 033 Water Scrubber Polypale East
 A. EPA Method 25 VOC
 B. Sulfur Dioxide Impinger Trap
 C. Toluene via G.C.
 - 033 Water Scrubber Polypale West A. EPA Method 25 - VOC B. Sulfur Dioxide Impinger Trap C. Toluene via G.C.
- 111. 038 Neuphor Effluent A. EPA Method 25 - VOC
- IV. 042 Flaking Belt Vapor Water Scrubber A. EPA Method 25 - VOC
- V. 043 Flaking Belt Dust Water Scrubber A. EPA Method 5 - Particulates
- VI. 063 Water Scrubber Kettle No. 1 A. EPA Method 25 - VOC
- VII. 071 Flaking Belt Vapor Water Scrubber A. EPA Method 25 - VOC
- VIII. 072 Dracco Baghouse Model 20-S A. EPA Method 5 - Particulates
- X. 101 Bvell Norbo Dust Collector A. EPA Method 5 - Particulates
- XI. 102 Flaking Belt Vapor Water Scrubber A. EPA Method 25 VOC
- XII. 112 Hydrogen Process A. EPA Method 25 - VOC
- XIII. 161 Kettle Water Aspirator A. EPA Method 25 - VOC B. Epichlorohydrin via G.C.
- XIV. 162 Dust Collector
 A. EPA Method 5 Particulates
- XV. 172 Dust Collector
 A. EPA Method 5 Particulates

TABLE OF CONTENTS, continued

XVI. 182 - Ammoniation Water Scrubber
A. EPA Method 25 - VOC
B. Ammonia Impinger Trap

XVII. 183 - Amine Reactor Water Scrubber
A. EPA Method 25 - VOC

XVIII. 190 - Polyrad and Polyol Area A. Storage tank data forms B. EPA Method 25 - VOC C. Ethylene Oxide via G.C.

XIV. 230 - Carbon Regeneration Furnace Scrubber A. EPA Method 25 - VOC



October 6, 1987

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Don:

Operating Permit No. 0800-00001

Please find the attached plan as required by Part III, other requirements, Item (8). Also, please reference my July 22, 1987 letter and in particular your subsequent air emissions inspection visit during which we discussed the required sampling and procedures. We are in agreement that if an area is not operating and not sampled by the end of CY-87, it will be sampled within 30 days after start-up.

Very truly yours,

Charles S. Jordan

Environmental Supervisor

CSJ/de de0016

Attachments

occ: D. J. Keilman - HO/5142 NW (W.O. Att.)

G. R. Yandle - (W.O. Att.)

E. P. Trotter - (W.O. Att.)

D. T. Smith

AMPLING PLAN

UPDATE	TRUKS E, L, P, R, Y, Y, TX			COMPLETE	NEN CONTRACT UNDER NEGOTIATION	124,288 lbs 16,8 -> 233,954 lbs 502 (1981)			AREA BOUN	TANKS T	2,475 MCF/YR	2,475 mcF/yR	COMPLETE	是	TANKS B		COMPLETE
Sampling	Storage tank data forms	Area down. $ u$	Area down. //	EPA Method 25 for VOC.	Area permanently shut down by year's end.	Calculation for sulfur dioxide for banking.	See Emission Point 020. /	See Emission Point 020. \prime	EPA Method 25 for VOC for banking.	Storage tank data forms	By calculation for natural gas	By calculation for natural gas	EPA Method 25 for VOC, plus sulfur dioxide impinger trap, plus toluene by G.C.	No vent //	Storage tank data forms	Per our discussion we propose not to sample. \checkmark	EPA Method 25 for VOC
Definition	Rosin Process Area	Mill Room Area	Extractor, Refinery, and Still House Combination Water and Oil Scrubber	Pexite Plant Oil Scrubber	Delnav Plant	Flare Tower	Limestone Tank No. 1	Limestone Tank No. 2	Digestion Sump Vent	Poly-Pale Plant	McKee Boiler	McKee Boiler	Water Scrubber (2 vents)	Heat Treatment	Rosin Shed	Drumming Operation	Flaking Belt Vapor Water Scrubber
Emission Point	010	011	012	013	020	021	022	023	024	030	031	032	033	034	040	041	042

		1771	eñ
Point	Definition	Sampling	WADATE
043	Flaking Belt Dust Water Scrubber	EPA Method 5 for particulates	COMPLETE
050	Package Boiler No.5	By calculation for natural gas	842,277 MCF
090	Vinsol Resin Process	Storage tank data forms	TAMKS VN
061	Sealas Furnace No.1	By calculation for natural gas	121 MCF
062	Sealas Furnace No.2	Identical to Emission Point 061	SPARE
063	Water Scrubber Kettle No. 1	EPA Method 25 for VOC	COMPLETE
064	Water Scrubber Kettle No. 2	Identical to Emission Point 063	SPARE
070	Truline Flaking and Packaging Area	Storage tank data forms	. THNKS VN
071	Flaking Belt Vapor Water Scrubber	EPA Method 25 for Voc	COMPLETE
072	Dracco Baghouse Model 20-S	EPA Method 5 for particulates	COMPLETE
073	Pangborn Baghouse Model 600	EPA Method 5 for particulates	NOT USED
080	Hard Resins Area	Storage tank data forms	TANKS S
081	Struthers-Wells Boiler	By calculation for natural gas	35,146 MOF1YR
082	Water Scrubber	EPA Method 25 for VOC, plus Maleic Anhydride by G.C.	COMPLETE
060	Continuous Ester- ification Area	Storage tank data forms	TANHS S
160	Foster Wheeler Boiler	By calculation for natural gas	11,715 MCF/YR
092	Continuous Ester- ification Unit	EPA Method 25 for VOC	MAJOR REPAIRS, SAMPLE IST MONTH OPERATION

34	WPDATE	TANKS S	COMPLETE	COMPLETE	TANKS FL, H	10,462 MCF/YR	COMPLETE	TANK H	TANKS LB	232 mcF/yR	\		TANKS D	TMIKS 0, PS	8,160 MEF/YR	TANKS K	COMPLETE	COMPLETE	THWAS DP
171	Sampling	Storage tank data forms	EPA Method 5 for particulates	EPA Method 25 for VOC	Storage tank data forms	By calculation for natural gas	EPA Method 25 for VOC	Storage tank data forms	Storage tank data forms	By calculation for natural gas	Area down. /	Area down. /	Storage tank data forms	Storage tank data forms	By calcuation for natural gas	Storage tank data forms	EPA Method 25 for VOC, plus Epichlorohydrin by G.C.	EPA Method 5 for particulates	Storage tank data forms
	Definition	Hard Resins Flaking House	Bvell Norbo Dust Collector	Flaking Belt Vapor Water Scrubber	Foral and Staybelite Plant	Struthers-Wells Boiler	Hydrogen Process	Hydrogen Furnace	Pilot Plant Area	Struthers-Wells Boiler	Vent No. 1	Vent No. 2	Resin 731 Area	Stills and Dresinate Area	Foster-Wheeler Boiler	Kymene Plant	Kettle Water Aspirator	Dust Collector	Defoamer Plant
	Point	100	101	102	110	111	112	120	130	131	132	133	140	150	151	160	161	162	170

•	<i>-</i>	2	¥										« #2 Frey On	K SOLVENT			
	2	WORE WALLE	1/18 mer 1/1	COMPLETE	TANKS RA	14,515 METYR	COMPLETE	20mPLETE		·		COMPLETE	267,443 MCF/A , 33,520 GAUS/A	THING D, PS	TANKS HP	TANKS TC	TANKS OP
-4-	Sampling	By calculation for natural cas		Storage tank data forms		EPA Method 25 for VOC plus ammonia	EPA Method 25 for VOC	Storage tank data forms, plus EPA Method 25 for VOC, plus ethylene oxide by G.C.	Area down.	Area down. $ u$	Area down.	EPA Method 25 for VOC	By calculation for natural gas	Storage tank data forms	Storage tank data forms	Storage tank data forms	Storage tank data forms
	Definition	Silica Drier Furnace	Dust Collector	Rosin Amine D Plant	Struthers-Wells Boiler	Ammoniation Water Scrubber	Amine Reactor Water Scrubber	Polyrad and Polyol Area	Para-menthane-Unit	Para-menthane Hydro- peroxide Unit	Sulfate Turpentine Refining Unit	Carbon Regeneration Furnace Scrubber	Murry Boiler	Stills and Dresinate Area	Para-cymene Unit	Synthetic Pine Oil	Paracol Plant
ž.	Point	171	172	180	181	182	183	190	200	210	220	230	240	152 8	250 F	260 F	270 P

Forcest



Hercules Incorporated West 7th Street P.O. Box 1937 Hattiesburg, MS 39401 (601) 545-3450

May 31, 1988

No. P 004 497 681 CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Watts:

Please find the following information relative to storage tank data forms and emissions tests results as required in our permit to operate. We are pleased to report sampling is essentially complete with the following exceptions and we will compile and report the results by mid-June.

We are in the process of signing a new contract for our Delnav facility. This signing should be completed in June or July and we will sample Delnav as soon as the unit is in operation. Also a couple of other units were not operational, major maintenance repairs, etc., which should be completed in June and these will be sampled as soon as they are in operation. These emission points are noted in the report.

Due to the rush in sampling, compiling, and submitting this large amount of data before the deadline, please excuse this short delay in submitting the final report. If I can answer any questions please call me.

Very truly yours,

Charles S. Jordan Environmental Supervisor

CSJ:sj jordan:3 Attachment

cc: P. W. Kirkendall



RECEIVED

APR 18 1988

Dept. of Natural Resources Bureau of Pollution Control Hercules Incorporated West 7th Street P.O. Box 1937 Hattiesburg, MS 39401 (601) 545-3450

April 14, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 004 497 667

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Watts:

Re our 4/13/88 phone conversation, the purpose of this letter is to confirm emission testing for our Neuphor facility on 4/22/88.

If I can answer any questions, please call me.

Very truly yours,

Charles Jordan

Environmental Supervisor

CSJ:sj 1027sj-8

cc: Mike Bonner

Bonner Anayltical Route 13, Box 85

Hattiesburg, MS 39401

P. W. Kirkendall

Changed to 4/27/88 per 4/21/88 Whome call



MISSISSIPPI DEPARTMENT OF NATURAL RE **Bureau of Pollution Control** P. O. Box 10385 Jackson, Mississippi 39209

(601) 961-5171



MEMORANDUM

Operating/Modification

TO:

Jerry B. Banks

FROM:

Don Watts

RE:

Hercules, Incorporated

Facility No. 110-0800-00001

Forrest County Major/South

For March 8, 1988, Permit Board

DATE:

February 25, 1988

Hercules has requested another extension in their deadline for submittal of current emissions data due to delays in the contractor being able to perform the testing. I recommend that their request be granted and that the Permit Board modify their Permit to give them until June 1, 1988, to submit their data as they requested.



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi 39209 (601) 961-5171



FILE COM

February 24, 1988

Mr Charles S. Jordan Environmental Supervisor Hercules Incorporated P.O. Box 1937 Hattiesburg, Mississippi 39401

Dear Mr. Jordan:

Re: Operating Permit No. 0800-00001 Hattiesburg, Mississippi

We have received your letter of February 19, 1988, requesting an extension of the report submittal deadline shown in Part III, No. (8) of your Operating Permit. We will recommend to the Permit Board that the deadline be extended to June 1, 1988, as you requested. However, we feel strongly that the date established in this extension should be strictly adhered to and failure to meet this date would subject you to enforcement action.

If you have any questions, please contact us.

Very truly yours,

Don Watts South Air Emissions Section

DW:sr



February 19, 1988

Receipt No. P 004 497 644 CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

RECEIVED
FEB 2 2 1988
Dept. of Natural Resources
Bureau of Pollution Control

Dear Mr. Watts:

Re our 2/17/88 phone conversation and operating permit 0800-00001 we are requesting a 90 day extension of the report submittal deadline to June 1, 1988.

As shown in the attached purchase order agreement (dated 11/2/87) we acquired the services of Bonner Analytical Testing Company to perform all testing. However, analytical delays (equipment) have prevented testing. Bonner indicates that they should be able to start testing by the end of this month. Additional information can be obtained from Mike Bonner at (601) 264-2854.

Our storage tank data forms are approximately 75% complete and we will be submitting these forms once they are complete and typed.

We feel this amount of time is necessary to generate accurate data for the permit requirement.

If I can answer any questions please call me.

Very truly yours,

Charles S. Jordan Environmental Supervisor

CSJ:sj jordan:3

Attachment





Hercules Incorporated

Purchase Order

_	Santa and Santa and Santa and Santa and Santa and Santa and Santa						
DELIVE	DEPT DIV ISS. OFF. LOC. SERIAL BUYER COI	NTRACT PAY TO CO. NAME L	.oc.	TYPE	CORP.		ASE ORDER DATE 02 87
SHIP	DATE PO COLL FRT. RATE EQ. RATE UNIT MAILED	ROM		1	ALT NO.		ATION DATE
SEE	BELOW	Hattiesburg,		ANI SOUR COR	ES OF		
	Sonner Analytical Testing Company Rt. 13, Box 85 Hattiesburg, MS 39401	Hercules Inco P. O. Drawer Hattlesburg. 2-MAIL ATTACHED AC Hercules Inco	orporate 1937 MS 394 KNOWLEDO	ed FOT GMENT TO:	ES OF		
P 1	dercules Incorporated fest 7th Street lattlesburg, MS 39401	P. O. Drawer Hattlesburg,		101			
ORIG VIA	DEST ROUTE MODE			·			
***	TER	MS Net 30					
FOB	Plantsite						
ITEM	DESCRIPTION	CODE	QUANTITY	PRICE	UNIT	AMO	DUNT
	 (1) Purchase Order Form. (2) Signed Purchase Order Acknowledgeme (3) Appendix A - General Conditions for Lump Sum Construction Contract (one copy attached). (4) "General Safety Guide for Contracto and Their Employees" (two copies at Bonner Analytical Testing Company (hereinafter referred to as "Contractor") agrees to furnish all necessary work including supervision, labor, equipment, and material to sample and furnish reports on all plant vent emissions, as required in air permits to operate, in accordance with the attached proposal and shall not exceed those quantities. 	rs tached). To be assigned upon receipt of invoice.		Not to 6 \$32,321.			
	Sampling shall commence and shall be completed as directed by C. S. Jordan.						
	* *		and the second				
USE MA	ATERIAL FOR	REQUISITIONED BY	C. S.	Jordan:	fb		· ·
APPRO	R. E. Shows, Purchasing Supv.	ORDERED BY		Shows			
		PURCHASE ORDER	NO. o	PETALE			



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi 39209 (601) 961-5171



MEMORANDUM



Operating/Modification

TO: Jerry B. Banks

FROM: Don Watts

RE: Hercules, Incorporated

Facility No. 110-0800-00001

Forrest County Major/South

For February 9, 1988, Permit Board

DATE: January 27, 1988

Hercules has applied for approval to manufacture hard resins in equipment which is currently idle. Hard resins are currently produced in another part of the facility. Approval of this request will enable Hercules to meet additional demand.

There are no toxic or carcinogenic emissions. Particulate emissions from the process will be controlled by a scrubber; actual emissions are essentially nil.

Based on the information presented, I recommend that the Operating Permit be modified to allow production of hard resins in the process area formerly used for Vinsol Resins and Truline Flaking and packaging.

FOY PLAST



Hercules Incorporated West 7th Street P.O. Box 1937 Hattiesburg, MS 39401 (601) 545-3450

January 28, 1988

RECEIVED

FEB - 1 1988

Dept. of Natural Resource Bureau of Pollution Contr

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 004 497 632

Mr. Don Watts Air Division Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi 39209

Dear Mr. Watts:

In reference to Operating Permit No. 0800-0001, please find the attached semi-annual report detailing all work done for emission point 130.

We will continue to submit this report on a semi-annual basis.

Very truly yours,

Charles S. Jordan

Environmental Supervisor

CSJ:m1 0001:2

Attachments

cc: D. W. Linde D. T. Smith, Jr.

To: C. S. Jordan

From: C. W. O. Eilo

Operating Permit No. 08000-0001 Hattiesburg, Ms.

With reference to the above permit, Part III, other requirements, 4, the attached semi-annual report is submitted. This report is for July 1, 1987 through January 1, 1988.

PROPRIETARY
HERCULES INCORPORATED
THIS DOCUMENT, AND THE INFORMATION
THEREIN, IS THE EXCLUSIVE PROPERTY OF HERCULES INCORPORATED, AND MAY NOT BE USED,
REPRODUCED, OR DISCLOSED TO OTHERS WITHOUT
THE WRITTEN PERMISSION OF HERCULES
INCORPORATED.

Pilot Plant Development Projects: July 1, 1987 - January 1, 1988

Equipment	<u>Operating</u> <u>Date</u>	Days
Batch Reactor (Kettle)	8/24/87 - 9/3/87 9/30/87 - 10/17/87	11 18

Product

Pentaerythritol Ester of Tall Oil Rosin Phenolic Resin (Res-D-2098)

Raw Materials

Refined Tall Oil Rosin Mono-pentaerythritol Calcium Formate Santonox Antioxidant (Irganox 1035) Nitrogen

PROPRIETARY HERCULES INCORPORATED THIS DOCUMENT, AND THE INFORMATION THEREIN, IS THE EXCLUSIVE PROPERTY OF HERCULES INCORPORATED, AND MAY NOT 8E USED, REPRODUCED, OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF HERCULES INCORPORATED.

Wood Rosin Para tertiary butyl phenol Paraformaldehyde Maleic Anhydride Mono-pentaerythritol

Assessment of Emissions

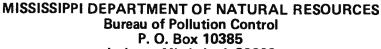
Potential Emissions
Nitrogen
Acrolein Vapors
Paraformaldehyde Vapors

Control Equipment Vent condenser

Vent Type

Water seal





Jackson, Mississippi 39209 (601) 961-5171

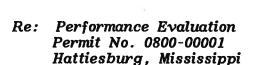


January 20, 1988

Certified Mail No. P 165 464 597

Mr. G. R. Yandle, Plant Manager Hercules, Incorporated P.O. Box 1937 Hattiesburg, Ms. 39401

Dear Mr. Yandle:



Enclosed please find the above referenced permit for operation of the permitted air emission equipment during startup and performance evaluation. This permit expires on May 20, 1988.

Any appeal of this permit action must be made within the 30 day period provided for in Section 49-17-29(4)(b) Mississippi Code of 1972.

Very truly yours,

Don Watts South Air Emissions Section

DW:sr Enclosure





December 29, 1987

RECEIVED

JAN - 5 1988

Dept. of Natural Resources Bureau of Pollution Control

CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Don Watts Bureau of Pollution Control P. O. Box 10385 Jackson, MS 39209

Dear Don:

Re my May 1, 1987 letter, the purpose of this letter is to submit adduct construction certification for the Neuphor process and request a performance evaluation permit. Our plans are to start up the adduct part of the project the week of January 11, 1987.

If I can answer any questions, please call me.

Very truly yours,

Charles S. Jordan Environmental Supervisor

Charles A. McMahan, P.E.

CSJ/vrf DW122987



November 19, 1987

CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Don Watts
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

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NOV 23 1987

Dept. of Natural Resources
Bureau of Pollution Control

Dear Don:

Permit Application for Hard Resins Expansion

Please find the attached permit application for Hard Resins expansion.

In order to meet increased sales volume our plans are to modify the existing Vinsol Resin process (Emission point 060) and the Truline flaking and packaging area (Emission point 070) to produce additional Hard Resins product.

A process description is included in the confidential attachment. If I can answer any additional questions please call me.

Very truly yours,

Charles S. Gordan Environmental Supervisor

CSJ:sj jordan:3

Attachment

cc: G. R. Yandle

D. T. Smith





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Air Quality Planning and Standards Research Triangle Park, North Carolina 27711

9 NOV 1987

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Dept. of Natural Resources Bureau of Pollution Control

Mr. Douglas Kielman

Hercules, Inc.

Hercules Plaza-5142

Wilmington, Delaware 19894

Dear Mr. Kielman:

As you may know, the United States Environmental Protection Agency (EPA), under Section 112 of the Clean Air Act, has been collecting background information on epichlorohydrin (EPI) emissions from plants that manufacture EPI or that use EPI as a raw material in the production of glycerine, epoxy and polyamide resins, elastomers, surfactants, and flame retardants. The data collection has been primarily related to short-term emissions of EPI, which are emissions under normal operating conditions as well as episodes during which emission rates significantly exceed the annual average emission rate for an emission source.

After studies on short-term, noncancer health effects of EPI exposure using the data collected in early 1986, it became apparent that more information, covering a broader time period, was needed to assess accurately the short-term data from the producers and users of EPI. Therefore, EPA has decided to collect additional information on short-term EPI emissions by requesting data spanning a 3-year period of time.

This letter is to request from Hercules information about EPI emissions and emission controls at your facilities in Savannah, Georgia; Chicopee, Massachusetts; Hattiesburg, Mississippi; Portland, Oregon; and Milwaukee, Wisconsin. The information requested is itemized in Enclosure 1 to this letter. This information, along with analogous information from other companies, will be used to assess the health effects from exposure to short-term emissions of EPI from user and producer facilities; to define the current status of emission control; and to assess the economic feasibility of installation and operation of emission control techniques. We are sensitive to the amount of labor required to respond to this request; however, we have tried to limit it to features important to regulatory development and to minimize demands on your time. Also, you may merely respond "not applicable" to questions that do not apply to your plant.

Please note that the format of Enclosure 1 is intended to be used as a guide for providing your responses. Any additional comments, upset/maintenance notification reports, or caveats regarding your responses are welcome and appreciated. A separate copy of Enclosure 1 should be completed for each of your facilities that use or produce EPI. Please make additional copies of Enclosure 1 as necessary.

The authority for EPA's information gathering is included in Section 114 of the Clean Air Act, as amended (42 U.S.C. 7414). Enclosure 2 contains a summary of this authority. If you believe that disclosure of specific pieces of information you submit would reveal a trade secret, you should clearly identify such pieces of information. Please do not label an entire response "confidential" if only certain portions consist of trade secret information. Refer to Enclosure 2 for the information EPA may require, at a later time, to support your confidentiality claims. Any information subsequently determined to constitute a trade secret will be protected under 18 U.S.C. 1905. If no claim of confidentiality accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice (40 CFR Part 2.203, September 1, 1986). All emission data. however, will be available to the public. It will expedite the study and simplify problems if you would separate any data claimed to be confidential from the balance of the data.

The EPA has contracted with MRI (Contract No. 68-02-4379) to obtain information pertinent to the industry. Thus, as noted in Enclosure 3, MRI has been designated by EPA as an authorized representative of the Agency. As a designated representative of the Agency, MRI is subject to the provisions of 42 U.S.C. 7414(c) respecting confidentiality of methods or processes entitled to protection as trade secrets.

Enclosure 4 summarizes Agency and Emission Standards and Engineering Division policies and procedures for handling privileged information and describes EPA contractor commitments and procedures for use of confidential materials. It is EPA's policy that compliance by an authorized representative with the requirements detailed in Enclosure 4 provides sufficient protection for the rights of submitters of privileged information.

If your company submitted a Section 114 information request during the 1986 survey or an earlier 1983 survey, a copy of the nonconfidential version of the completed response(s) is included as Enclosure 5 for your review. Items such as process component counts for units may be verified and resubmitted since this information will, in many cases, remain the same regardless of the time span for which data are requested.

Because of time constraints that you may have in completing this response, please understand that the information pertaining to short-term emissions is desired first so that the modeling phase of the project can be initiated as soon as possible. If you have any questions regarding this request or are unable to provide responses to the enclosed questions by January 18, 1987, please contact Mr. Mark L. Meech of our office at (919) 541-5499.

Sincerely,

Jack R. Farmer Director

Emission Standards and Engineering Division

5 Enclosures

Thomas Bispham, Oregon Department of
Environmental Quality
Robert Collom, Jr., Georgia Environmental
Protection Division
Kenneth Hagg, Massachusetts Department
of Environmental Quality Engineering
Don Thieler, Wisconsin Department of
Natural Resources
Dwight Wylie, Mississippi Department
of Natural Resources
Louis Gitto, Region I
Winston Smith, Region IV
David Kee, Region V
Gary O'Neal, Region X





November 13, 1987

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Dept. of Natural Resources Bureau of Pollution Control

Mr. Don Watts Air Division Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi

Dear Don:

As we discussed by phone our plans are to evaluate an activated carbon adsorption canister as a replacement for the water scrubber shown on the application for a Maleic Anhydride storage tank. We will evaluate the canister while keeping emissions at a minimum and following the evaluation we will inform you of our decision for the best emission control equipment.

If I can answer any additional questions please call me.

Very truly yours,

Charles S// Jordan Environmental Supervisor

CSJ:sj jordan:3