



Mississippi Department of Environmental Quality
Office of Pollution Control

I-sys 2000 Master Site Detail Report

Site Name: Hercules Inc

<p>PHYSICAL ADDRESS</p> <p>LINE 1: 613 West 7th Street</p> <p>LINE 2:</p> <p>LINE 3:</p> <p>MUNICIPALITY: Hattiesburg</p> <p>STATE CODE: MS</p> <p>ZIP CODE: 39401-</p> <p>MAILING ADDRESS</p> <p>LINE 1: 613 West 7th Street</p> <p>LINE 2:</p> <p>LINE 3:</p> <p>MUNICIPALITY: Hattiesburg</p> <p>STATE CODE: MS</p> <p>ZIP CODE: 39401-</p>	<p>OTHER INFORMATION</p> <p>MASTER ID: 002022</p> <p>COUNTY: Forrest</p> <p>REGION: SRO</p> <p>SIC 1: 2822</p> <p>AIR TYPE: TITLE V</p> <p>HW TYPE: LARGE QUANTITY</p> <p>SOLID TYPE:</p> <p>WATER TYPE: INDUSTRIAL</p> <p>BRANCH: Chemical</p> <p>ECED CONTACT: Yassin, Mohammad</p> <p>BASIN:</p>
<p>AIR PROGRAMS <input checked="" type="checkbox"/> SIP <input type="checkbox"/> PSD <input type="checkbox"/> NSPS <input type="checkbox"/> NESHAPS <input checked="" type="checkbox"/> MACT</p>	



**Mississippi Department of Environmental Quality
Office of Pollution Control**

Permits				
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	NO
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	NO

Compliance Actions				
MEDIA	ACTIVITY TYPE	SCHEDULED	COMPLETED	INSPECTED B
WATER	CEI - NA	3/17/99	3/17/99	Yassin, Mohammad
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
HAZ WASTE	Compliance Evaluation Inspection	6/30/99	6/30/99	Yassin, Mohammad
AIR	State Compliance Inspection	6/29/99	6/29/99	Yassin, Mohammad
WATER	CEI - NA	6/30/99	6/30/99	Yassin, Mohammad



Hercules Incorporated
613 West 7th Street
Hattiesburg, MS 39401
(601) 545-3450
Fax: (601) 584-3226
www.herc.com

July 25, 2001

CERTIFIED MAIL #7000 0520 0024 6195 1684

Mr. Rick Sumrall, Branch Chief
Environmental Compliance & Enforcement Division
Mississippi Department of Environmental Quality
P.O. Box 10385
Jackson, MS 39289-0385



Re: Hercules Incorporated
Facility No. 0800-00001
Title V Semi-Annual Report

Dear Mr. Sumrall:

As required by Title V Operating Permit Conditions 5.A.4 [ref.: APC-S-6, Section III.A.3.c.(1)], 5.C.1.(b) and 40 CFR 63.182 [ref.: 40 CFR 63.528(b)], 5.B.6, 5.B.7, 5.B.8, 5.B.9, 5.B.10, 5.B.11, 5.B.13, 5.B.14, and 5.C.3, attached is the required summary data for the semi-annual reporting period ending June 30, 2001. Deviations from the Title V Permit requirements are identified and included in this report. Also, the RAD Process Area is now subject to 40 CFR 63-Subpart PPP, but permit modifications are not yet complete. Therefore, as required by 40 CFR 63.182 (ref.: 40 CFR 63.1434), the required summary data is included in the attached semi-annual report.

In accordance with 40 CFR 63.160(a) and 40 CFR 63.180(d)(i), the regulated equipment associated with the re-circulating line in the Kymene process area operated less than 300 hours for calendar year 2000 and is expected to operate less than 300 hours for calendar year 2001; therefore, this equipment is not subject to the above referenced semi-annual reporting period.

As Responsible Official for Hercules Incorporated, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the attached document are true, accurate, and complete.

If you have any questions or need further information, please contact Mr. Charles Jordan at (601) 584-3360 or Mr. Brian Ketchum at (601) 584-3264.

Sincerely,

HERCULS INCORPORATED

Walter D. Langhans
Plant Manager

Attachment(s)

Contents of Report

The Title V Operating Permit requires a semi-annual report by January 31 and July 31 of each year. This report, for the semi-annual reporting period of July 1, 2000 through December 31, 2000, contains the following sections:

1. Fuel Burning Equipment
2. Kymene Process Area
3. AKD Process Area
4. HRA Process Area
5. Poly-Pale Process Area
6. RAD Process Area
7. Neuphor Process Area
8. Kymene LDAR Monitoring
9. Polyether Polyols Production LDAR Monitoring
10. Deviations from Permit Requirements

Fuel Burning Equipment

FUEL BURNING REPORT SUMMARY

As required by 5.A.4, 5.B.6, 5.B.7, and 5.C.3, monthly records of the type, quality, and quantity of fuel combusted are provided in this section. Only natural gas was combusted during this semi-annual reporting period.

Gulf South Pipeline Company, LP
07/17/0110:28:55

SUMMARY OF MOST RECENT GAS ANALYSES

Station ID: 002672 Analysis ID:
Location Name: PETAL WEST -BXTRVILLE 16" TO HATESBRG 8"

Analysis No.:	1553601	156463	157725	158356	159294	159983	160571
Analysis Source:							
Sample Date On:	11/22/00	12/14/00	01/22/01	02/22/01	03/22/01	04/23/01	05/22/01
Sample Date Off:							
Analyzed Date:	12/20/00	01/30/01	02/28/01	03/29/01	05/02/01	05/31/01	06/27/01
Effective Date:	12/01/00	01/01/01	02/01/01	03/01/01	04/01/01	05/01/01	06/01/01

Components	Number 1 Mol %	Number 2 Mol %	Number 3 Mol %	Number 4 Mol %	Number 5 Mol %	Number 6 Mol %	Number 7 Mol %
Hydrogen Sulfide	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nitrogen	0.6190	0.5510	0.5830	0.9800	0.8380	1.0000	0.7810
Carbon Dioxide	1.2840	1.1760	1.4040	1.9660	1.5330	1.4620	1.3330
Methane	95.0180	94.7060	94.1880	94.3720	94.6430	94.6900	94.8590
Ethane	1.8760	2.2900	2.2770	1.4290	1.7120	1.5910	1.8560
Propane	0.5590	0.6390	0.7580	0.5100	0.5600	0.4820	0.5350
Iso-butane	0.1450	0.1450	0.2000	0.1350	0.1440	0.1200	0.1270
Normal-butane	0.1690	0.1570	0.2090	0.1900	0.1820	0.1660	0.1590
Iso-pentane	0.0720	0.0850	0.0900	0.0900	0.0790	0.0870	0.0710
Normal-pentane	0.0650	0.0610	0.0720	0.0860	0.0800	0.0830	0.0610
Hexanes	0.1930	0.1900	0.2190	0.2420	0.2290	0.3190	0.2180
Specific Gravity:	0.5972	0.5987	0.6048	0.6050	0.6014	0.6022	0.5982
LBs of H2O:	5.6	5.8	7.8	6.2	8.5	7.8	6.6
Grains H2S/100 CF:	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPM H2S:	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry BTU w/ H2S:	1038	1044	1047	1026	1034	1034	1035
Wet BTU w/ H2S:	1020	1026	1029	1009	1016	1016	1017
AWC BTU w/ H2S:	1038	1044	1047	1026	1034	1034	1035
Dry BTU w/o H2S:	1038	1044	1047	1026	1034	1034	1035
Wet BTU w/o H2S:	1020	1026	1029	1009	1016	1016	1017
AWC BTU w/o H2S:	1038	1044	1047	1026	1034	1034	1035

Kymene Process Area

KYMENE PROCESS AREA REPORT SUMMARY

Kymene Reactor Scrubber (AA-001)

As required by 5.B.14, weekly operator maintenance checks were performed on the Kymene Reactor Scrubber (AA-001). No problems were noted during the weekly operator visual inspections. Routine process area maintenance activities included repairing the scrubber flow rate monitor on January 8th, replacing the bearings on the scrubber fan on January 31st, and removing and cleaning the scrubber packing on May 8-9th.

Adipic Acid Dust Shaker (AA-002)

As required by 5.B.14, weekly operator and mechanic maintenance checks were performed on the Adipic Acid Dust Shaker (AA-002). No problems were noted during the weekly inspections.

As required by 5.B.8 (and 5.A.4 data reporting), the amounts of raw material processed and hours operated were recorded daily, and the records are included in this section.

Emission Point - AA002
Adipic Acid Handling system with a Dust Collector

Date	Time @ End of Charge	Polymer Batch #	Adipic Acid Charge Time (1)	Adipic Acid Total Charge		Adipic Acid Charge Rate	Initials	Comments
				Minutes	S/S's Pounds			
M-D-Y	A=AM P=PM							
5/17/01	2: AM	590	75	6	12006	4.8	E.P.	
5-18-01	1:05 PM	591	50	6	12005	7.2	J.M.	
5-18-01	9:50 PM	592	60	6	12015	6.0	J.S.	
5/19/01	3:46 PM	593	75	6	12007	4.8	J.S.	
5/23/01	1:35 AM	594	80	6	12002	4.5	E.P.	
5/23/01	5:35 PM	595	55	6	12012	6.6	J.S.	
5/24/01	4:25 AM	596	60	6	12005	6.0	J.M.	
5/26/01	5:25 PM	597	70	6	12009	5.1	E.P.	
5/28/01	6:50 PM	598	80	6	12001	4.5	E.P.	
5/30/01	11:10 AM	599	55	6	12010	6.6	J.M.	
5/31/01	11:30 AM	600	60	6	12016	6.0	J.M.	
6/1/01	11:35 AM	601	50	6	12018	7.2	J.S.	
6/1/01	8:20 PM	602	70	6	12011	5.1	E.P.	
6/4/01	8:45 AM	603	50	6	12007	7.2	J.M.	
6/5/01	11:15 AM	604	60	6	12030	6.0	J.M.	
6/6/01	12:01 PM	605	54	6	12033	6.7	J.M.	
6/6/01	12:25 PM	604	55	6	12031	6.6	E.P.	
6-8-01	8:15 AM	607	70	6	12032	5.2	J.M.	
6/11/01	9:05 AM	608	60	6	12035	6.0	J.M.	
6/11/01	9:05 PM	609	55	6	12012	6.6	J.M.	
6/12/01	9:37 AM	610	60	6	12043	6.0	J.M.	
6/13/01	10:05 AM	611	60	6	12028	6.0	J.M.	
6/13/01	7:00 PM	612	60	6	12030	6.0	J.S.	
6/14/01	2:10 AM	613	60	6	12008	6.0	J.S.	
6/14/01	10:50 AM	614	70	6	12029	5.2	J.M.	
6/14/01	10:05 AM	615	60	6	12013	6.0	J.S.	
6/15/01	9:05 AM	616	70	6	12025	5.2	J.M.	
6/15/01	8:20 PM	617	70	6	12029	5.2	J.M.	

(1) Determined from the start/stop charge time on the Polymer batch sheet

Tons/Hr AA Charge Rate = (Total lbs. AA Charged/Minutes of Charge Time) X 0.03 ; Record to nearest 1/10th

0.03 Factor = 60 min/hr / 2000 lbs/ton

Emission Point - AA002
Adipic Acid Handling system with a Dust Collector

Date	Time @ End of Charge	Polymer Batch #	Adipic Acid Charge Time (1)	Adipic Acid Total Charge		Adipic Acid Charge Rate	Initials	Comments
				S/S's	Pounds			
M-D-Y	A=AM P=PM		Minutes			Tons/Hr		
3/28/01	1:34 PM	0562	60	6	12010	6.01	J.M.	
3/28/01	10:10 PM	0563	45	6	12014	8.01	J.S.	
3/30/01	5:10 AM	0564	60	6	12000	6.00	J.M.	
4/1/01	3:30 AM	0565	55	6	12004	6.5	J.M.	
4/2/01	12:15 AM	0566	55	6	12000	6.6	J.M.	
4/3/01	10:58 AM	0567	55	6	12002	6.6	J.S.	
4/3/01	6:07 PM	0568	60	6	12006	6.0	J.M.	
4/12/01	10: PM	0569	60	6	12001	6.0	J.M.	
4/14/01	4:00 AM	0570	60	6	12015	6.0	J.S.	
4/16/01	9:30 AM	0571	60	6	12008	6.0	J.M.	
4/16/01	6:46 PM	0572	62	6	12011	5.8	J.M.	
4/16/01	5:00 AM	0573	55	6	12009	6.6	J.S.	
4/17/01	2:05 PM	0574	4 min 570	6	11990	5.1	J.M.	
4/20/01	9:06 PM	0575	60	6	12006	6.0	J.S.	
4/24/01	1:40 AM	576	80	6	12008	4.5	J.P.	
4/24/01	12:01 PM	0577	80	6	11997	4.5	J.M.	
4/25/01	1:40 AM	578	80	6	12003	4.5	J.P.	
4/25/01	9:00 PM	579	50	6	12005	7.2	J.S.	
4/28/01	6:05 AM	580	60	6	12001	6.0	J.M.	
4/30/01	2:30 PM	581	50	6	12007	7.2	J.S.	
5/1/01	12:57 AM	582	62	6	11994	5.8	J.M.	
5/3/01	11:30 AM	583	77	6.5	12002	4.7	J.P.	
5/7/01	11:30 AM	584	90	6	12004	4.0	J.M.	
5/11/01	5:40 PM	585	75	6	12000	4.8	J.P.	
5/14/01	3:20 PM	586	60	6	12000	6.0	J.M.	
5/15/01	1:15 AM	587	75	6	12001	4.8	J.P.	
5/15/01	10:15 AM	588	60	6	12011	6.0	J.S.	
5/15/01	7:00 PM	589	60	6	12008	6.0	J.M.	

5:08
J.S.
4/16/01

-P.
4/24/01

(1) Determined from the start/stop charge time on the Polymer batch sheet
Tons/Hr AA Charge Rate = (Total lbs. AA Charged/Minutes of Charge Time) X 0.03 ; Record to nearest 1/10th
0.03 Factor = 60 min/hr / 2000 lbs/ton

Emission Point - AA002						
End Charge Adipic Acid Handling System with a Dust Collector						
Date	Time	Polymer Batch #	Adipic Acid Charge Time	Adipic Acid Total Charge		Adipic Acid Charge Rate
M-D-Y	A=AM P=PM		Minutes	Bags/ Sacks	Pounds	Tons/Hr
2/19/01	11:15 AM	533	90	5/6	12003	4
2/20/01	12:20 PM	534	60	5/6	12011	6
2/20/01	4:16 PM	535	60	5/6	12017	6
2/22/01	11:32 AM	536	80	5/6	11996	5
2/23/01	4:50 PM	537	60	5/6	12025	6
2/25/01	4:40 PM	538	60	5/6	12005	6
2/26/01	2:50 AM	539	90	5/6	11973	5
2/26/01	9:37 PM	540	60	5/6	12003	6
2/28/01	3 PM	541	60	5/6	11989	6
3-1-01	12:27 PM	542	60	5/6	12005	6
3/4/01	3:45 PM	543	65	5/6	12011	6
3/5/01	11:30 AM	544	62	5/6	12015	6
3/5/01	10:45 AM	545	60	5/6	12008	6
3/5/01	6:1 PM	546	80	5/6	12004	4.5
3-6-01	1:14 AM	547	65	5/6	12005	6
3/7/01	10:50	548	60	5/6	12013	6
3/7/01	7:30 PM	549	90	5/6	12015	4.4 GTS
3/8/01	12:30 PM	550	63	5/6	12019	3.7 GTS
3/9/01	8:45 PM	551	73	5/6	12009	4.9 GTS
3/14/01	10:10 PM	552	55	5/6	12015	6.5
3/16/01	6:06 PM	553	50	5/6	12023	7.2 BSK
3/19/01	11:12 AM	554	60	5/6	12021	6
3/19/01	8:34 PM	555	62	5/6	12004	5.8
3/19/01	5:35 AM	556	65	5/6	12021	5.6 BSK
3/21/01	5:49 PM	557	59	5/6	12019	6.1
3/22/01	2:16 AM	558	76	5/6	12010	4.7 BSK
3/23/01	4:55 PM	559	58	5/6	12019	6.2
3/24/01	6:30 PM	560	55	5/6	12017	6.6
3/26/01	9:02 PM	561	48	5/6	12015	7.5

On 2/20/01, we changed as fast as possible - turn 60 minutes or 6 tons/hr loading 5th Truck

loaded a TIS

loaded T1.

$$\left\{ \frac{\text{lbs of charge}}{\text{minutes of charge}} \times \frac{60 \text{ min}}{\text{hr}} \times \frac{\text{tons}}{2000 \text{ lb}} \right\}$$

042-0039-002 rev. 1
Formerly 042-0017-004

Example →
(using batch # 551)

$$12,009 \text{ lbs} \div 73 \text{ min} = 164.5 \text{ lb/min}$$

$$164.5 \text{ lb/min} \times 60 \text{ min/hr} = 9870.6 \text{ lbs/hr}$$

$$9870.6 \text{ lbs/hr} \div 2000 \text{ lb} = 4.9 \text{ tons/hr}$$

Emission Point – AA002
Adipic Acid Handling System with a Dust Collector

Date	Time	Polymer Batch #	Adipic Acid Charge Time	Adipic Acid Total Charge		Adipic Acid Charge Rate	Comments
				Minutes	Bags/Sacks		
M-D-Y	A=AM P=PM						
1-2-01	1:05 ^{PM}	504	90	5/6	12006	4	
1-3-01	2:45 ^{PM}	505	90	5/6	12012	4	
1-4-01	2:06 ^{PM}	506	90	5/6	12014	4	
1-6-01	3:02 ^{PM}	507	90	5/6	12018	4	
1-7-01	9:04 ^{PM}	508	90	5/6	12016	4	
1-9-01	9:32 ^{PM}	509	90	5/6	12019	4	
1-10-01	7:07 ^{PM}	510	90	5/6	12009	4	
1-12-01	8:08 ^{PM}	511	90	5/6	12007	4	
1-13-01	4:16 ^{PM}	512	90	5/6	12005	4	
1-15-01	4:12 ^{PM}	513	90	5/6	12004	4	
1-20-01	1:36 ^{PM}	514	90	5/6	12009	4	
1-20-01	9:04 ^{PM}	515	90	5/6	12024	4	
1-21-01	9:45 ^{AM}	516	90	5/6	12026	4	
1-24-01	1:45 ^{PM}	517	90	5/6	12013	4	
1-25-01	12:25 ^{PM}	518	90	5/6	12009	4	
1-26-01	7:10 ^{PM}	519	90	5/6	12000	4	
1-28-01	5:50 ^{PM}	520	90	5/6	12010	4	
1-29-01	3:00 ^{AM}	521	90	5/6	12002	4	
1-29-01	1 ^{AM}	522	90	5/6	12000	4	
2/10/01	9:15 ^P	523	90	5/6	12019	4	
2/16/01	10 ^{PM}	524	90	5/6	12010	4	
2/16/01	12:05	525	90	5/6	12005	4	
2/17/01	10:AM	526	90	5/6	12000	4	
2/17/01	6:20 ^{AM}	527	90	5/6	12002	4	
2/19/01	10:04 ^{AM}	528	90	5/6	11980	4	
2-12-01	4: ^{PM}	529	90	5/6	12000	4	
2-13-01	3:50 ^{PM}	530	90	5/6	12000	4	
2-14-01	5:30	531	90	5/6	12000	4	
2-17-01	5:30 ^{PM}	532	90	5/6	12000	4	

Emission Point – AA002
Adipic Acid Handling System with a Dust Collector

Date	Time	Polymer Batch #	Adipic Acid Charge Time	Adipic Acid Total Charge		Adipic Acid Charge Rate	Comments
				Minutes	Boxes 520K		
11/25/00	12:58P	475	90	5/6	12,028	4	
11/30/00	7:02P	476	90	5/6	12,237	4	
11/30/00	3:51A	477	90	5/6	12,031	4	
12/2/00	3:30P	478	90	5/6	12,022	4	
12/2/00	1:42A	479	90	5/6	12,012	4	
12/4/00	3:24P	480	90	5/6	12,004	4	
12/06/00	5:09P	481	90	5/6	12,009	4	
12/6/00	1:45A	482	90	5/6	12,018	4	
12/07/00	10:23A	483	90	5/6	12,002	4	
12/07/00	7:20P	484	90	5/6	12,002	4	
12/09/00	12:40A	485	90	5/6	12,014	4	
12/14/00	9:52A	486	90	5/6	11,963	4	
12/10/00	5:46P	487	90	5/6	12,002	4	
12/10/00	2:27A	488	90	5/6	12,005	4	
12/11/00	3:15P	489	90	5/6	12,008	4	
12-15-00	10:15 ^A	490	90	5/6	12,006	4	
12-15-00	6:45 ^P	491	90	5/6	12,009	4	
12-16-00	5:54P	492	90	5/6	12,012	4	
12-16-00	12:40A	493	90	5/6	12,008	4	
12-17-00	10:40P ^A	494	90	5/6	12,005	4	
12/21/00	3:12P	495	90	5/6	12,007	4	
12/23/00	6:10 ^{PM}	496	90	5/6	12,001	4	
12/23/00	4:01 ^{AM}	497	90	5/6	12,002	4	
12-25-00	3:59P ^A	498	90	5/6	12,018	4	
12/26/00	12:35A	499	90	5/6	12,003	4	
12-30-00	9:11A ^M	500	90	5/6	12,004	4	
12/31/00	9:03P ^A	501	90	5/6	12,026	4	
12-31-00	8:57P ^A	502	90	5/6	12,013	4	
01-01-01	8:28A ^M	503	90	5/6	12,006	4	

AKD Process Area

AKD PROCESS AREA REPORT SUMMARY

Paracol Water Scrubber (AB-001)

As required by 5.B.14, weekly operator maintenance checks were performed on the Paracol Water Scrubber (AB-001). No problems were noted during the weekly operator visual inspections. Routine maintenance included cleaning out the scrubber to prevent plugging on May 15th.

As required by 5.B.9, water flow rate through the scrubber was recorded on a weekly basis.

Silica Furnace Dust Collector (AL-002)

The Silica Furnace Dust Collector (AL-002) did not operate during this semi-annual reporting period; therefore, the weekly maintenance checks, required by 5.B.14, only noted that the unit was not operating.

As required by 5.B.11 (and 5.A.4 data reporting), the silica processed and the hours operated were not recorded since the unit did not operate.

Title V -- Maintenance Log

AKD Area

Date	Time, A = AM P = PM	Initials	Paracol® Wax Emulsion Vent Scrubber, AB001				Silica Furnace Dust Collector, AL002									
			Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks		
			Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
4-25-01	7:30 AM	JL	✓		5.6		✓		← NOT operating →	→	← NOT operating →	→				
5-4-01	8: AM	BA	✓		0 *		0		← ENTIRE AREA down 4/28-5/4							
5-10-01	1:30 PM	WMC	✓		5.5		✓		← NOT OPERATING →	→	← NOT OPERATING →	→				
5-16-01	2:00 PM	JL	✓		5.6		✓		← NOT operating →	→	← NOT operating →	→				
5-23-01	8:15 AM	JL	✓		5.3		✓		← NOT operating →	→	← NOT operating →	→				
5-30-01	9:30 P	JL	✓		6.0		✓		← NOT operating →	→	← NOT operating →	→				
6-7-01	7:00 A	JL	✓		5.9		✓		← NOT operating →	→	← NOT operating →	→				
6-13-01	7:00 AM	WMC	✓		5.8		✓		← NOT OPERATING →	→	← NOT OPERATING →	→				
6-20-01	8:30 PM	JL	✓		5.6		✓		← NOT operating →	→	← NOT operating →	→				
6-27-01	1: PM	JL	✓		5.7		✓		← NOT operating →	→	← NOT operating →	→				
7-5-01	9: PM	JL	✓		5.8		✓		← NOT operating →	→	← NOT operating →	→				
7-11-01	2 PM	WMC	✓		5.3		✓		← NOT OPERATING →	→	← NOT OPERATING →	→				

* Paracol/AKD Process area did not operate during the week of 4/28-5/4/01; therefore, the scrubber water flow rate was not necessary.

Title V -- Maintenance Log AKD Area

Date	Shift Time, A = AM P = PM	Initials	Paracol® Wax Emulsion Vent Scrubber, AB001				Silica Furnace Dust Collector, AL002										
			Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks			
			Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
1-29-01	8:44 AM	WME	✓		5.0		✓		←	NOT OPERATING	←	NOT OPERATING	←	NOT OPERATING	←		
2-5-01	7:50 AM	WME	✓		5.9		✓		←	NOT OPERATING	←	NOT OPERATING	←	NOT OPERATING	←		
2-12-01	7:30 AM	JJ	✓		5.6		✓		←	NOT OPERATING	←	NOT OPERATING	←	NOT OPERATING	←		
2-19-01	7:30 AM	BA	✓		5.7		✓		←	NOT OPERATING	←	NOT OPERATING	←	NOT OPERATING	←		
2-26-01	7:15 AM	JL	✓		5.5		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
3-28-01	7:20 AM	JR	✓		5.4		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
3-6-01	7:10 AM	JR	✓		5.8		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
3-15-01	7:20 AM	JJ	✓		5.0		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
3-22-01	8:45	WME	✓		6.0		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
3-28-01	5:PM	JJ	✓		6.2		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
3-29-01	2PM	WME	✓		5.9		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
4-5-01	7:15 AM	JJ	✓		5.1		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
4-12-01	5:20 AM	BA	✓		5.4		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		
4-20-01	7:30 AM	JR	✓		4.9 *		✓		→	NOT OPERATING	→	NOT OPERATING	→	NOT OPERATING	→		

* Adjusted flow on Scrubber, Raised to 5.2

Title V -- Maintenance Log AKD Area

Date		Initials		Paracol Vent Scrubber, AB001				Silica Furnace Dust Collector, AL002									
				Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks		
				Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1-8-01		gk		✓	5.0		✓			NOT OPERATING	→	NOT OPERATING	→				
1-15-01		gk		✓	5.1		✓			NOT OPERATING	→	NOT OPERATING	→				
1-22-01		BA		✓	6.1		✓			NOT OPERATING	→	NOT OPERATING	→				

Title V -- Maintenance Log AKD Area

Date	Initials	Paracol Vent Scrubber, AB001					Silica Furnace Dust Collector, AL002												
		Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks						
		Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No					
12-4-00	JK	✓		5.8		✓		NOT OPERATING											
12-11	BA	✓		5.5		✓		NOT OPERATING											
12-18	LL	✓		5.0		✓		NOT OPERATING											
12-25	JK	✓		5.0		✓		NOT OPERATING											
1-20-01	JK	✓		5.0		✓		NOT OPERATING											

HRA Process Area

HRA PROCESS AREA REPORT SUMMARY

HRA Water Scrubber (AG-003)

As required by 5.B.14, weekly operator maintenance checks were performed on the HRA Water Scrubber (AG-003). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

HRA Flaking Belt Dust Collector (AG-005)

As required by 5.B.14, weekly maintenance checks were performed on the HRA Flaking Belt Dust Collector (AG-005). On June 30th - July 1st, the dust collector hopper did not dump properly, and maintenance was performed to unplug solids unloading line. No other problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

As required by 5.B.10, the pressure drop across the baghouse was recorded weekly (or more frequent) while the area is operating.

Hydrogen Generation Process (AK-000)

The Hydrogen Generation Process (AK-000) did not operate during this semi-annual reporting period; therefore, the weekly maintenance checks, required by 5.B.14, only noted that the unit was not operating.

Poly-Pale Process Area

POLY-PALE PROCESS AREA REPORT SUMMARY

Poly-Pale Water Scrubber #1 (AC-002)

As required by 5.B.14, weekly maintenance checks were performed on Poly-Pale Water Scrubber #1 (AC-002). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating. On June 1, the vent lines to the scrubber were cleaned as part of routine maintenance prior to area start-up.

Poly-Pale Water Scrubber #2 (AC-003)

As required by 5.B.14, weekly maintenance checks were performed on Poly-Pale Water Scrubber #2 (AC-003). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating. On June 1, the vent lines to the scrubber were cleaned as part of routine maintenance prior to area start-up.

Poly-Pale Process Melter (AC-004)

As required by 5.B.13 (and 5.A.4 data reporting), the amounts of raw material processed and hours operated were recorded daily, and the records are included in this section.

EMISSION POINT AC-004 (MELTER)**Report Period:
Jan. - June, 2001****Note: No activity on those dates not shown.**

DATE	# HOURS	# DRUMS	TOTAL LBS.	TONS/HR.
06/04/2001	16	87	43155	1.349
06/05/2001	16	87	43155	1.349
06/06/2001	16	122	60516	1.891
06/07/2001	16	60	29762	0.930
06/08/2001	16	65	32242	1.008
06/12/2001	16	58	28770	0.899
06/13/2001	8	43	21330	1.333
06/14/2001	8	42	20833	1.302
06/15/2001	16	73	36211	1.132
06/16/2001	16	100	49604	1.550
06/17/2001	16	92	45635	1.426
06/18/2001	16	87	43155	1.349
06/19/2001	8	27	13393	0.837
06/20/2001	8	40	19841	1.240
06/21/2001	16	104	51588	1.612
06/22/2001	16	80	39683	1.240
06/23/2001	16	120	59524	1.860
06/24/2001	16	83	41171	1.287
06/25/2001	16	89	44147	1.380
06/26/2001	8	36	17857	1.116
06/27/2001	8	100	49604	3.100

EMISSION POINT AC-004 (MELTER)**Report Period:
Jan. - June, 2001****Note: No activity on those dates not shown.**

DATE	# HOURS	# DRUMS	TOTAL LBS.	TONS/HR.
04/03/2001	16	100	49604	1.550
04/04/2001	8	53	26290	1.643
04/18/2001	8	8	3968	0.248
04/19/2001	8	6	2976	0.186
04/23/2001	8	30	14881	0.930
04/25/2001	8	30	14881	0.930
04/26/2001	8	30	14881	0.930
05/02/2001	8	30	14881	0.930
05/03/2001	8	30	14881	0.930
05/07/2001	8	30	14881	0.930
05/09/2001	8	30	14881	0.930
05/10/2001	8	47	23314	1.457
05/14/2001	8	20	9921	0.620
05/16/2001	8	32	15873	0.992
05/17/2001	8	32	15873	0.992
05/18/2001	8	32	15873	0.992
05/22/2001	8	32	15873	0.992
05/31/2001	8	8	3968	0.248
06/02/2001	8	32	15873	0.992

EMISSION POINT AC-004 (MELTER)

**Report Period:
Jan. - June, 2001**

Note: No activity on those dates not shown.

DATE	# HOURS	# DRUMS	TOTAL LBS.	TONS/HR.
02/25/2001	16	83	41171	1.287
02/26/2001	16	89	44147	1.380
03/02/2001	16	23	11409	0.357
03/03/2001	16	57	28274	0.884
03/04/2001	16	120	59524	1.860
03/05/2001	16	100	49604	1.550
03/06/2001	16	45	22322	0.698
03/07/2001	16	60	29762	0.930
03/08/2001	16	40	19841	0.620
03/10/2001	16	80	39683	1.240
03/11/2001	16	80	39683	1.240
03/12/2001	16	40	19841	0.620
03/13/2001	8	60	29762	1.860
03/14/2001	8	60	29762	1.860
03/15/2001	8	40	19841	1.240
03/16/2001	16	60	29762	0.930
03/17/2001	16	60	29762	0.930
03/18/2001	16	120	59524	1.860
03/19/2001	16	60	29762	0.930
03/20/2001	16	80	39683	1.240
03/21/2001	16	60	29762	0.930
03/22/2001	16	100	49604	1.550
03/23/2001	16	100	49604	1.550
03/24/2001	8	52	25794	1.612
03/25/2001	16	100	49604	1.550
03/29/2001	8	60	29762	1.860
04/02/2001	16	100	49604	1.550

EMISSION POINT AC-004 (MELTER)**Report Period:
Jan. - June, 2001****Note: No activity on those dates not shown.**

DATE	# HOURS	# DRUMS	TOTAL LBS.	TONS/HR.
01/09/2001	8	32	15873	0.992
01/15/2001	8	32	15873	0.992
01/17/2001	8	20	9921	0.620
01/18/2001	8	20	9921	0.620
01/19/2001	16	40	19841	0.620
01/22/2001	8	20	9921	0.620
01/23/2001	16	34	16865	0.527
01/24/2001	8	30	14881	0.930
01/25/2001	16	30	14881	0.465
01/29/2001	8	30	14881	0.930
01/31/2001	16	80	39683	1.240
02/01/2001	16	80	39683	1.240
02/08/2001	8	40	19841	1.240
02/14/2001	16	70	34722	1.085
02/15/2001	16	102	50596	1.581
02/16/2001	16	62	30754	0.961
02/17/2001	8	20	9921	0.620
02/18/2001	16	104	51588	1.612
02/19/2001	8	52	25794	1.612
02/20/2001	16	52	25794	0.806
02/21/2001	8	49	24306	1.519
02/23/2001	16	100	49604	1.550
02/24/2001	16	100	49604	1.550

RAD Process Area

RAD PROCESS AREA REPORT SUMMARY

Ammonia Packed Bed Scrubber (AF-002)

As required by 5.B.14, weekly maintenance checks were performed on the Ammonia Packed Bed Scrubber (AF-002). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating. On January 5 and April 27, 2001, the scrubber spray nozzles were cleaned as part of routine area maintenance.

EO Packed Bed Scrubber (AF-004)

As required by 5.B.14, weekly maintenance checks were performed on the EO Packed Bed Scrubber (AF-004). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

Neuphor Process Area

NEUPHOR PROCESS AREA REPORT SUMMARY

Adduct Reactor Scrubber (AD-001)

As required by 5.B.14, weekly operator and mechanic maintenance checks were performed on the Adduct Reactor Scrubber (AD-001). No problems were noted during the weekly operator visual inspections. The spent scrubber carbon was replaced on March 19th.

Dresinol Water Eductor (AD-002)

As required by 5.B.14, weekly operator maintenance checks were performed on the Dresinol Water Eductor (AD-002); however, the unit did not operate during the semi-annual reporting period.

Kymene LDAR Monitoring

KYMENE LDAR MONITORING

In Accordance with 40 CFR 63, Subpart W, Subpart H, and Permit Conditions 5.B.1, 5.B.2, 5.B.3, 5.B.4, and 5.C.1, Hercules Incorporated is providing the following required information:

- Report required by 40 CFR 63.182(d)(2);
- Summary report of actual monitoring data; and
- Recordkeeping and reporting of Startup, Shutdown, and Malfunctions per SSM Plan.
 - Form A: SSM Plan Conformance
 - Form B: Nonconformance to SSM Plan (no nonconformance incidents)

During the weekly visual pump and agitator inspections, a pump seal on pump #6183 was found leaking on February 13, 2000. The pump seal was repaired and monitored for leaks on February 16th. The monitoring verified that no leak was present after repair.

No problems or deviations from the permit were noted during the routine monthly LDAR monitoring.

Connector #6187 and #6131 were found dripping during non-routine inspections. The leaks were repaired and monitored within the regulatory timeframe. The monitoring verified that no leak was present after repair in either case.

PERIODIC LEAK MONITORING REPORT

January 1, 2001 through June 30, 2001

Hercules Incorporated
Hattiesburg, Mississippi

KYMENE PROCESS AREA (AA-000)

1. **Number of affected *valves* in HAP service for which leaks were detected as described in § 63.168(b), the percent leakers, and the total number monitored:**
 - No affected valves were discovered leaking ($V_L=0$) during the referenced reporting period (>500 ppm);
 - $[V_L/V_T] * 100 = 0.00\%$ of total valves monitored were leaking; and
 - 110 total valves ($V_T=110$) were monitored.

2. **Number of *valves* for which leaks were not repaired per § 63.168(f), identifying the number of those that are determined non-repairable:**
 - None.

3. **Number of affected *pumps* in HAP service for which leaks were detected as described in § 63.163(b), the percent leakers, and the total number monitored:**
 - No affected pumps were discovered leaking ($P_L=0$) during the required monthly monitoring ($>1,000$ ppm);
 - $[P_L/P_T] * 100 = 0.00\%$ of total pumps monitored on a monthly basis were leaking as determined by § 63.163(d)(4); and
 - 3 affected pumps monitored 6 times for a total of 18 pumps ($P_T=18$) monitored.

4. **Number of *pumps* for which leaks were not repaired per § 63.163(c):**
 - None.

5. **Number of affected *agitators* in HAP service for which leaks were detected as described in § 63.173(a) & (b):**
 - The affected agitator did not leak during the referenced reporting period ($>10,000$ ppm);

6. **Number of *agitators* for which leaks were not repaired per § 63.173(c):**
 - None.

7. Number of affected *connectors* in HAP service for which leaks were detected as described in § 63.174(a), the percent leaking, and the total number monitored:

- No affected connectors were measured at or above 500 ppm ($C_L=0$) during the referenced reporting period;
- $[C_L/C_T] * 100 = 0.00\%$ of total connectors monitored were leaking; and
- 2 total connectors ($C_T=2$) were monitored.

8. Number of *connectors* for which leaks were not repaired per § 63.174(d), identifying the number of those that are determined non-repairable:

- None.

9. Explain any *delay of repairs*:

- All applicable repairs were made in a timely fashion.

10. Results of all monitoring within semi-annual reporting period to show compliance with § 63.165(a), *pressure relief device* releases:

- No releases during the semi-annual reporting period.

11. Notification of a change in *connector monitoring alternatives* as described in §63.174(c)(1):

- As allowed in §63.174(c)(1)(ii), Hercules Incorporated changed connector monitoring alternatives during the July 1 - December 31, 2000, semi-annual reporting period. Instead of monitoring opened or broken connectors for leaks within three (3) months of being returned to organic HAP service, Hercules chooses **not** to monitor connectors that have been opened or had the seal broken. It is realized that nonrepairable connectors can not be counted while complying with this alternative; therefore, in the percent leaking calculations C_{AN} will be set to zero.

12. *Monitoring results and component summary report* during the semi-annual reporting period:

- Summary information from the referenced semi-annual reporting period is attached.

SEMI-ANNUAL LDAR REPORT WORKSHEET

Unit: Kymene
Year 2001

Routine Monthly Monitoring	Jan	Feb	Mar	Apr	May	Jun	Jan - Jun % Leakers
Total valves monitored	0	55	0	0	55	0	0
Valves leaking	0	0	0	0	0	0	
Valves not repaired within 15 days	0	0	0	0	0	0	
Total pumps monitored	3	3	3	3	3	3	0
Pumps leaking	0	0	0	0	0	0	
Pumps not repaired within 15 days	0	0	0	0	0	0	
Total agitators monitored	1	1	1	1	1	1	
Agitators leaking	0	0	0	0	0	0	
Agitators not repaired within 15 days	0	0	0	0	0	0	
Total connectors monitored	0	0	1	0	0	1	0
Connectors leaking	0	0	0	0	0	0	
Connectors not repaired within 15 days	0	0	0	0	0	0	
Total pressure relief devices (PRD) monitored	0	0	0	0	0	0	
PRDs leaking	0	0	0	0	0	0	
PRDs not repaired within 15 days	0	0	0	0	0	0	

Comments:

- 1) Visible leak in pump (#6183) was reported, repaired, and monitored as required for 63 Subpart H. Per the regulations (63.163(d)(4)), the leak is not recorded above in the % leakers.
- 2) Visible leaks in connectors (#6131 and #6187) were reported, repaired, and monitored as required for 63 Subpart H. Per the regulations (63.174(i)(1)), the leak is not recorded above in the % leakers.

HERCULES, INC.
 613 WEST SEVENTH STREET
 HATTIESBURG, MS 39403
 Unit Summary Report

DATA SELECTED : ALL DATA

07/13/2001

PAGE NO.

1

Component Count for KYMENE

-->

394

Unit Totals

Total Valves: 60
TOTAL NORMAL: 55
 NORMAL-NDE: 0
TOTAL DTM: 5
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total Pumps: 3
TOTAL NORMAL: 3
 NORMAL-NDE: 0
TOTAL DTM: 0
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total CONNECT: 328
TOTAL NORMAL: 281
 NORMAL-NDE: 0
TOTAL DTM: 47
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total Components:
 394
Total Normal:
 342
Total Difficult:
 52
Total Unsafe:
 0

Total Normal Non-Detectables:
 0
Total DTM Non-Detectables:
 0
Total UTM Non-Detectables:
 0

Total OTHER COMPONENTS: 1
TOTAL NORMAL: 1
 NORMAL-NDE: 0
TOTAL DTM: 0
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total COMPRESSORS: 0
TOTAL NORMAL: 0
 NORMAL-NDE: 0
TOTAL DTM: 0
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total PRD's: 2
TOTAL NORMAL: 2
 NORMAL-NDE: 0
TOTAL DTM: 0
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total CLV's: 0
TOTAL NORMAL: 0
 NORMAL-NDE: 0
TOTAL DTM: 0
 DTM-NDE: 0
TOTAL UTM: 0
 UTM-NDE: 0
TOTAL NDE: 0

Total on Shutdown: 0

Startup, Shutdown, and Malfunction Plan (SSM) Checklist -- Form A

Shutdown Date	Shutdown Time (AM or PM)	Startup Date	Startup Time (AM or PM)	Initials	SSM Plan Properly Followed?		Was Form B Completed?		Was There a Malfunction?		Identify the event as a startup, shutdown, or malfunction, or provide comments or Action(s) taken during SSM. Include scrubber water flowrate (gpm) at Startup.
					Yes	No	Yes	No	Yes	No	
		6/22/01	8:48 PM	E.R.	✓		✓		✓		Startup Scrubber flowrate 14.01 gpm
6/23/01	8:30 AM			Gm	✓		✓		✓		Plan Shut down
6/23/01	7:15 AM	6/23/01	7:15 AM	J.E.P.	✓		✓		✓		Startup Scrubber flowrate 13.36 gpm
7/4/01	6:47 AM	7/4/01	9:00 AM	J.E.P.	✓		✓		✓		Start flow rate in this tank. Flow rate 14.87 gpm
7/4/01	6:47 AM	7/4/01	7:00 AM	Gm	✓		✓		✓		Start flow rate in this tank. Flow rate 14.87 gpm
7/7/01	7:13 AM	7/7/01	10:00 AM	J.E.P.	✓		✓		✓		Plan Shut down.
		7/1/01	10:00 AM	L.S.	✓		✓		✓		Startup scrubber flow rate 14.03 gpm

For a malfunction, use the startup/shutdown date and time columns to record the duration of the event.

Startup, Shutdown, and Malfunction Plan (SSM) Checklist -- Form A

Shutdown Date	Shutdown Time (AM or PM)	Startup Date	Startup Time (AM or PM)	Initials	SSM Plan Properly Followed?		Was Form B Completed?		Was There a Malfunction?		Identify the event as a startup, shutdown, or malfunction and provide comments or Action(s) taken during SSM. Include scrubber water flowrate (gpm) at Startup.
					Yes	No	Yes	No	Yes	No	
5/6/01	8:38 PM			A.M	✓						Plan Shut Down
5/7/01		5/7/01	7:20 AM	E.P.	✓		✓				Started up Scrubber water Flowrate 11.519 gpm
5/8/01	2:43 AM			A.M	✓						Plan Shutdown
5/10/01		5/10/01	7:AM	E.P.	✓		✓				Clean Scrubber system. Started up Scrubber water Flowrate 12.316 gpm.
5/13/01	1:20 PM			A.M	✓		✓				Plan Shutdown
5/13/01		5/13/01	11:45 PM	A.M	✓		✓				Started scrubber at 11:45 PM flow rate 13.166.
5/23/01	6:25 AM			A.M	✓						Plan Shutdown
5/24/01	4:05 AM	5/24/01	4:45 PM	E.P.	✓		✓				Started up Scrubber Flowrate 14.508 gpm
6/12/01	7:05 AM			A.M	✓						Plan Shutdown
6/19/01	7:30 AM	6/19/01	7:00 AM	E.P.	✓		✓				Started up Scrubber Flowrate 13.789 gpm.
6/19/01				A.M	✓						Plan shut down.
6/19/01		6/19/01	7:35 AM	A.M	✓						Started up Scrubber Flowrate 14.326 gpm.
6/17/01	9:20 AM			E.P.	✓		✓				Plan Shutdown
6/18/01	8:00 AM	6/18/01	8:00 AM	A.M	✓		✓				Started up scrubber Flowrate 12.358 gpm
6/22/01	7:00 PM	6/22/01	7:10 PM	E.P.	✓		✓				lost Power Plant wide Flowrate 13.029 gpm.
6/22/01	8:25 PM			E.P.	✓		✓				Plan Shut down to Check Breakers.

For a malfunction, use the startup/shutdown date and time columns to record the duration of the event.

Startup, Shutdown, and Malfunction Plan (SSM) Checklist -- Form A

Shutdown Date	Shutdown Time (AM or PM)	Startup Date	Startup Time (AM or PM)	Initials	SSM Plan Properly Followed?		Was Form B Completed?		Was There a Malfunction?		Identify the event as a startup, shutdown, or malfunction and provide comments or Action(s) taken during SSM. Include scrubber water flowrate (gpm) at Startup.
					Yes	No	Yes	No	Yes	No	
3/24/01	6:34 AM			K.P.	✓			✓		✓	Plan Shutdown started scrubber at 3:00 PM flow rate 17-38 GPM
3/24/01	2:00 PM	3/24/01	3:00 PM	J.P.	-			✓		✓	Plan Shutdown
3/24/01	2:10 PM			K.P.	✓			✓		✓	Started scrubber @ 11:40 PM Flow Rate 15.83 GPM
3/24/01	11:40 AM	3/31/01	11:40 AM	J.M.	✓			✓		✓	Plan Shutdown
4/17/01	1:25 PM			J.M.	✓			✓		✓	Plan Shutdown
4/18/01	3:05 PM	4/18/01	3:05 PM	J.M.	✓			✓		✓	Started scrubber @ 3:05 PM - H20707
4/21/01	6:20 AM			E.P.	✓			✓		✓	Plan Shutdown
4/21/01	6:20 AM	4/21/01	3:00 PM	E.P.	✓			✓		✓	Started scrubber @ 3:00 PM flow rate 17.40 GPM
4/21/01	6:20 AM	4/21/01	3:20 PM	E.P.	✓			✓		✓	Started scrubber @ 3:20 PM flow rate 17.40 GPM
4/28/01	2:30 PM			E.P.	✓			✓		✓	Plan Shutdown
4/29/01	11:00 AM			A.M.	✓			✓		✓	Started scrubber @ 11:00 AM Flow Rate 12.45
5/1/01	12:45 PM			E.P.	✓			✓		✓	Plan Shutdown
5/1/01	11:30 AM	5/1/01	11:30 AM	A.M.	✓			✓		✓	Started scrubber @ 11:30 PM Flow Rate 16.24
5/5/01	11:50 AM			A.M.	✓			✓		✓	Plan Shutdown
5/10/01	7:14 AM	5/10/01	7:14 AM	E.P.	✓			✓		✓	Startup @ 7:14 AM Flowrate 12.66 gpm scrubbers

For a malfunction, use the startup/shutdown date and time columns to record the duration of the event.

Startup, Shutdown, and Malfunction Plan (SSM) Checklist – Form A

Date	Time, include AM or PM	Initials	SSM Plan Properly Followed?		Was Form B Completed?		Was there a Malfunction?		Comments or Action(s) Taken during SSM *Include scrubber flowrate (gpm) during startups*
			Yes	No	Yes	No	Yes	No	
2/19/01	9:30 AM	A.P.M.	✓		✓				Shut Down To Installed New Coales on R-401
2/19/01	9:30 AM	G.M.	✓		✓				R-401 is ready for start up.
3/3/01	1:40 PM	G.M.	✓		✓				Shut down for shift.
3/3/01	1:40 PM	A.M.	✓		✓				R-401 is Ready for Start up. Shut down to replace MCCI
3/7/01	8:00 AM	S.S.	✓		✓				Ready for start up.
3/7/01	8:05 AM	S.S.	✓		✓				Shut Down for A shift.
3/10/01	3:15 PM	A.M.	✓		✓				Ready for start up.
3/10/01	11:50 PM	G.M.	✓		✓				lost power
3/12/01	9:55 A	K.P.	✓		✓				Power Back on Flowrate 16.10 (gpm)
3/12/01	10:05 A	K.P.	✓		✓				lost power
3/12/01	10:19 A	K.P.	✓		✓				Power back on Flowrate 15.16 (gpm)
3/13/01	10:41 AM	G.M.	✓		✓				Repaired Leak on pressure gauge @ 8:45 AM.
3/16/01	7:20 A	K.P.	✓		✓				Test for leak and startup @ 9:40 AM Flowrate 17.56 gpm scrubber

Per conversation w/ David Markwardt (EPA) on 3/19/01, LDAR leaks are no longer considered malfunctions.

Startup, Shutdown, and Malfunction Plan Checklist - Form A

Date	Startup, Shutdown, Malfunction Plan Properly Followed?		Kymene Scrubber gpm	Was Form B Completed?		Was there a Malfunction?		Action Taken for - Section 6.2,6.3,6.4
	Yes	No		Yes	No	Yes	No	
1/31/01	✓		X	✓	✓	✓		noise heard in scrubber for shut down at 10AM start back up at 9:30PM
2/03/01	✓		X	✓	✓	✓		started 4P @ 13:00 PM Plan Shut Down @ 5:10 AM Scrubber motor started up at 11:45 AM
2/5/01	✓		X	✓	✓	✓		Shut down @ 2:07 AM started up @ 11:07 AM
2/5/01	✓		X	✓	✓	✓		Plan Shut Down, worked on EPI weight Tank. 8:05 PM started @ 11:35 AM.
2/9/01	✓		X	✓	✓	✓		Sine pump leak @ 11:04 AM Zip @ 10:30 PM.
2/9/01	✓		X	✓	✓	✓		
2/10/01	✓		X	✓	✓	✓		
2/13/01	✓		X	✓	✓	✓		

**Polyether Polyols
Production LDAR
Monitoring**

RAD LDAR MONITORING

In Accordance with 40 CFR 63, Subpart PPP, Subpart H, and future Permit Conditions, Hercules Incorporated is providing the following required information:

- Report required by 40 CFR 63.182(d)(2);
- Summary report of actual monitoring data; and
- Recordkeeping and reporting of Startup, Shutdown, and Malfunctions per SSM Plan.
 - Form A: SSM Plan Conformance
 - Form B: Nonconformance to SSM Plan (no nonconformance incidents)

No problems or deviations were noted during the weekly visual pump inspections.

On January 12th, during quarterly LDAR monitoring, it was discovered that a valve (#5129) was incorrectly identified as a connector and a connector (#5112X) was incorrectly identified as a valve. The database was immediately corrected.

PERIODIC LEAK MONITORING REPORT

January 1, 2001 through June 30, 2001

Hercules Incorporated
Hattiesburg, Mississippi

POLYRAD PROCESS AREA (AF-000)

1. **Number of affected *valves* in HAP service for which leaks were detected as described in § 63.168(b), the percent leakers, and the total number monitored:**
 - No affected valves were discovered leaking ($V_L=0$) during the referenced reporting period (>500 ppm);
 - $[V_L/V_T] * 100 = 0.00\%$ of total valves monitored were leaking; and
 - 194 total valves ($V_T=194$) were monitored.

2. **Number of *valves* for which leaks were not repaired per § 63.168(f), identifying the number of those that are determined non-repairable:**
 - None.

3. **Number of affected *pumps* in HAP service for which leaks were detected as described in § 63.163(b), the percent leakers, and the total number monitored:**
 - No affected pumps were discovered leaking ($P_L=0$) during the referenced reporting period ($>5,000$ ppm);
 - $[P_L/P_T] * 100 = 0.00\%$ of total pumps monitored were leaking; and
 - 3 affected pumps monitored 6 times for a total of 18 pumps ($P_T=18$) were monitored.

4. **Number of *pumps* for which leaks were not repaired per § 63.163(c):**
 - None.

5. **Number of affected *connectors* in HAP service for which leaks were detected as described in § 63.174(a), the percent leaking, and the total number monitored:**
 - No affected connectors were discovered leaking ($C_L=0$) during the referenced reporting period (>500 ppm);
 - $[C_L/C_T] * 100 = 0.00\%$ of total connectors were leaking; and
 - 1 connector ($C_T=1$) was monitored.

6. Number of *connectors* for which leaks were not repaired per § 63.174(d), identifying the number of those that are determined non-repairable:
 - None.
7. Explain any *delay of repairs*:
 - None.
8. Results of all monitoring within semi-annual reporting period to show compliance with § 63.165(a), *pressure relief devices*:
 - No releases during the semi-annual reporting period.
9. Notification of a change in *connector monitoring alternatives* as described in §63.174(c)(1):
 - As allowed in §63.174(c)(1)(ii), Hercules Incorporated changed connector monitoring alternatives during the July 1 - December 31, 2000, semi-annual reporting period. Instead of monitoring opened or broken connectors for leaks within three (3) months of being returned to organic HAP service, Hercules chooses **not** to monitor connectors that have been opened or had the seal broken. It is realized that nonrepairable connectors can not be counted while complying with this alternative; therefore, in the percent leaking calculations C_{AN} will be set to zero.
10. *Monitoring results and component summary report* during the semi-annual reporting period:
 - Summary information from the referenced semi-annual reporting period is attached.

SEMI-ANNUAL LDAR REPORT WORKSHEET

Unit: RAD
Year: 2001

Routine Monthly Monitoring	Jan	Feb	Mar	Apr	May	Jun	Jan - Jun % Leakers
Total valves monitored	97	0	0	97	0	0	0
Valves leaking	0	0	0	0	0	0	
Valves not repaired within 15 days	0	0	0	0	0	0	
Total pumps monitored	3	3	3	3	3	3	0
Pumps leaking	0	0	0	0	0	0	
Pumps not repaired within 15 days	0	0	0	0	0	0	
Total connectors monitored	1	0	0	0	0	0	0
Connectors leaking	0	0	0	0	0	0	
Connectors not repaired within 15 days	0	0	0	0	0	0	
Total pressure relief devices (PRD) monitored	0	0	0	0	0	0	
PRDs leaking	0	0	0	0	0	0	
PRDs not repaired within 15 days	0	0	0	0	0	0	

Comments:

Component Count for RAD

-->

891

Unit Totals

Total Valves: 107
 TOTAL NORMAL: 97
 NORMAL-NDE: 0
 TOTAL DTM: 9
 DTM-NDE: 0
 TOTAL UTM: 1
 UTM-NDE: 0
 TOTAL NDE: 0

Total Pumps: 3
 TOTAL NORMAL: 3
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total CONNECT: 763
 TOTAL NORMAL: 527
 NORMAL-NDE: 0
 TOTAL DTM: 236
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total Components: 891
 Total Normal: 640
 Total Difficult: 250
 Total Unsafe: 1

Total Normal Non-Detectables: 0
 Total DTM Non-Detectables: 0
 Total UTM Non-Detectables: 0

Total OTHER COMPONENTS: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total COMPRESSORS: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total PRD's: 18
 TOTAL NORMAL: 13
 NORMAL-NDE: 0
 TOTAL DTM: 5
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total CLV's: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total on Shutdown: 0

Deviations from Permit Requirements

DEVIATIONS FROM PERMIT REQUIREMENTS

January 1, 2001 through June 30, 2001

Hercules Incorporated Hattiesburg, Mississippi

1. As required by 5.A.4 of the Title V Operating Permit, deviations from permit requirements must be clearly identified and reported. Deviations from permit requirements are detailed below:

No deviations from permit requirements occurred during this semi-annual reporting period.

2. Additionally, since the RAD Process Area is subject to MACT, Subpart PPP and the permit is not yet modified to include these requirements, deviations from the federal requirements are detailed below:

On January 12, 2001, it was discovered at the PolyRAD process unit that a valve (#5129) was incorrectly identified as a connector and a connector (#5112X) was incorrectly identified as a valve. The database was immediately corrected.



Hercules Incorporated
613 West 7th Street
Hattiesburg, MS 39403
(601) 545-3450
Fax: (601) 584-3226
www.herc.com

January 26, 2001

CERTIFIED MAIL – RETURN RECEIPT REQUESTED
CERT. # 7000 0520 0024 6195 1516



Mr. Rick Sumrall, Branch Chief
Environmental Compliance & Enforcement Division
Mississippi Department of Environmental Quality
P.O. Box 10385
Jackson, MS 39289-0385

Dear Mr. Sumrall:

Re: Hercules Incorporated
Facility No. 0800-00001
Title V Semi-Annual Report

As required by Title V Operating Permit Conditions 5.A.4 [ref.: APC-S-6, Section III.A.3.c.(1)], 5.C.1.(b) and 40 CFR 63.182 [ref.: 40 CFR 63.528(b)], 5.B.6, 5.B.7, 5.B.8, 5.B.9, 5.B.10, 5.B.11, 5.B.13, 5.B.14, and 5.C.3, attached is the required summary data for the semi-annual reporting period ending December 31, 2000. Deviations from the Title V Permit requirements are identified and included in this report. Also, the RAD Process Area (Polyether Polyols production) is now subject to 40 CFR 63-Subpart PPP, which was recently promulgated. Therefore, as required by 40 CFR 63.182 (ref.: 40 CFR 63.1434), the required summary data is included in the attached semi-annual report.

In accordance with 40 CFR 63.160(a) and 40 CFR 63.180(d)(i), the regulated equipment associated with the re-circulating line in the Kymene process area operated less than 300 hours for the calendar year 2000; therefore, this equipment is not subject to the above referenced semi-annual reporting period.

As Responsible Official for Hercules Incorporated, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the attached document are true, accurate, and complete.

If you have any questions or need further information, please contact Mr. Charles Jordan at (601) 584-3360 or Mr. Brian Ketchum at (601) 584-3264.

Sincerely,

Walter D. Langhans
Plant Manager

Attachment(s)

Contents of Report

The Title V Operating Permit requires a semi-annual report by January 31 and July 31 of each year. This report, for the semi-annual reporting period of July 1, 2000 through December 31, 2000, contains the following sections:

1. Fuel Burning Equipment
2. Kymene Process Area
3. AKD Process Area
4. HRA Process Area
5. Poly-Pale Process Area
6. RAD Process Area
7. Neuphor Process Area
8. Kymene LDAR Monitoring
9. Polyether Polyols Production LDAR Monitoring
10. Deviations from Permit Requirements

Fuel Burning Equipment

Fuel Burning Report Summary

As required by 5.B.6 (and 5.A.4 data reporting), 5.B.7 (and 5.A.4 data reporting), and 5.C.3 (and 5.A.4 data reporting), monthly records of the type and quantity of fuel combusted are provided in this section. Only natural gas was combusted during this semi-annual reporting period.

MONITORING, RECORDKEEPING & REPORTING REQUIREMENT 5.A.4

YEAR	EMISSION POINT	DESCRIPTION	GAS USAGE - MCF												TOTAL
			JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	
2000	AC001	Poly-pale nat. gas Dowtherm boiler	0	1655	3712	2499	1798	3261	0	4261	1175	0	1191	2,200	21752
	AF001	RAD nat. gas Dowtherm boiler	2631	2549	0	1428	3237	544	3861	0	3132	2827	0	0	20209
	AG001	HRA nat. gas Dowtherm boiler	1287	616	432	558	331	457	503	473	837	939	1276	282	7991
	AG002	HRA nat. gas Dowtherm boiler	0	0	0	0	0	0	0	0	0	0	0	0	0
	AJ001	Rosin dist. nat. gas Dowtherm boiler	916	1263	157	155	0	696	235	408	542	364	0	319	5055
	AK001	Hydrogen nat. gas Dowtherm boiler	0	0	0	0	0	0	0	0	0	0	0	0	0
	AL001	Silica nat. gas Dowtherm boiler	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM001	No. 5 package boiler	42487	40868	37733	37034	31419	35653	31775	36574	28857	34158	33512	33178	423248
	AM002	No. 6 package boiler	369	0	1742	501	0	0	0	750	12811	0	0	0	16173
	AN001	Reg. furnace nat. gas boiler	0	0	0	0	0	0	0	0	0	0	0	0	0
	T5ngas		47690	46951	43776	42175	36785	40611	36374	42466	47354	38288	35979	35979	494428

Koch Gateway Pipeline Company
DETAIL METER STATEMENT
FOR THE MONTH OF 07/00

08/07/00 19:24:32
PAGE 4

ER ID: 002520-01
LOCATION: HATTIESBURG CITY GATE #1
TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
ANALYST: Matthews, Liola
PHONE #: 5044695903

----- METER INFORMATION -----										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
07/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

----- VOLUME INFORMATION -----												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730		Dth	
									BTU(D)			
1	2	1	48	24.0	62.0	122.7	19.5	0.5959	3630	1030.4000	3740	
2	3	2	42	24.0	62.9	122.8	15.1	0.5959	3179	1030.4000	3276	
3	4	3	45	24.0	62.8	122.9	17.2	0.5959	3382	1030.4000	3485	
4	5	4	49	24.0	62.5	122.5	19.7	0.5959	3641	1030.4000	3752	
5	6	5	52	24.0	64.2	122.6	22.4	0.5959	3879	1030.4000	3997	
6	7	6	53	24.0	64.8	122.7	23.3	0.5959	3964	1030.4000	4085	
7	8	7	52	24.0	65.1	122.8	22.1	0.5959	3854	1030.4000	3971	
8	9	8	49	24.0	66.1	122.9	19.7	0.5959	3635	1030.4000	3746	
9	10	9	49	24.0	64.2	122.8	20.0	0.5959	3687	1030.4000	3799	
10	11	10	50	24.0	66.0	122.9	20.7	0.5959	3714	1030.4000	3827	
11	12	11	52	24.0	66.6	122.9	23.0	0.5959	3916	1030.4000	4035	
12	13	12	50	24.0	66.4	122.8	21.0	0.5959	3754	1030.4000	3868	
13	14	13	52	24.0	65.6	122.9	22.3	0.5959	3878	1030.4000	3996	
14	15	14	48	24.0	65.2	122.8	19.9	0.5959	3511	1030.4000	3721	
15	16	15	36	24.0	66.8	122.9	11.1	0.5959	2656	1030.4000	2737	
16	17	16	35	24.0	66.3	122.9	10.5	0.5959	2624	1030.4000	2704	
17	18	17	38	24.0	65.2	122.8	12.0	0.5959	2827	1030.4000	2913	
18	19	18	40	24.0	65.6	122.8	13.5	0.5959	2998	1030.4000	3089	
19	20	19	40	24.0	66.5	122.9	13.4	0.5959	2976	1030.4000	3066	
20	21	20	40	24.0	67.9	122.9	13.3	0.5959	2957	1030.4000	3047	
21	22	21	38	24.0	65.5	122.9	12.5	0.5959	2862	1030.4000	2940	
22	23	22	36	24.0	65.0	122.8	11.1	0.5959	2709	1030.4000	2791	
23	24	23	38	24.0	65.1	122.7	12.3	0.5959	2842	1030.4000	2928	
24	25	24	43	24.0	64.8	122.7	15.4	0.5959	3186	1030.4000	3283	
25	26	25	42	24.0	65.2	122.8	15.0	0.5959	3156	1030.4000	3252	
26	27	26	41	24.0	66.3	122.9	14.4	0.5959	3083	1030.4000	3177	
27	28	27	42	24.0	63.9	122.8	14.9	0.5959	3160	1030.4000	3256	
28	29	28	39	24.0	65.5	122.8	13.1	0.5959	2924	1030.4000	3013	
29	30	29	35	24.0	67.5	122.9	10.6	0.5959	2631	1030.4000	2711	
30	31	30	37	24.0	65.8	122.7	11.6	0.5959	2774	1030.4000	2858	
31	1	31	43	24.0	64.1	122.8	15.8	0.5959	3227	1030.4000	3325	
Total									101316		104397	

----- GAS QUALITY INFORMATION -----													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
07/01/00	C	4.6	0.7970	1.3680	0.0000	95.1740	1.6650	0.3950	0.1100	0.1360	0.0680	0.0670	0.2200

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 07/00

08/07/00 19:24:32
 PAGE 5

METER ID: 002520-02
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Office

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, Ljola
 PHONE #: 5044695903

METER INFORMATION										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
07/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730		BTU(D)	Dth
1	2	1	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
2	3	2	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
3	4	3	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
4	5	4	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
5	6	5	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
6	7	6	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
7	8	7	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
8	9	8	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
9	10	9	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
10	11	10	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
11	12	11	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
12	13	12	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
13	14	13	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
14	15	14	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
15	16	15	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
16	17	16	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
17	18	17	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
18	19	18	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
19	20	19	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
20	21	20	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
21	22	21	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
22	23	22	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
23	24	23	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
24	25	24	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
25	26	25	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
26	27	26	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
27	28	27	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
28	29	28	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
29	30	29	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
30	31	30	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
31	1	31	0	0.0	0.0	14.7	0.0	0.5959	0	1030.4000	0	0
Total									0	0	0	0

GAS QUALITY INFORMATION														
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+	
07/01/00	C	4.6	0.7970	1.3680	0.0000	95.1740	1.6650	0.3950	0.1100	0.1360	0.0680	0.0670	0.2200	

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 08/00

09/08/00 18:44:19
 PAGE 4

SER ID: 002520-01
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, Liola
 PHONE #: 5044695903

METER INFORMATION										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
08/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth	
1	2	1	49	24.0	63.5	122.6	20.0	0.5941	3662	1031.3000	3777	
2	3	2	51	24.0	62.9	122.5	21.9	0.5941	3823	1031.3000	3943	
3	4	3	51	24.0	63.0	122.5	21.6	0.5941	3803	1031.3000	3922	
4	5	4	47	24.0	64.1	122.7	19.0	0.5941	3495	1031.3000	3604	
5	6	5	44	24.0	64.4	122.7	16.4	0.5941	3274	1031.3000	3376	
6	7	6	46	24.0	65.1	122.7	17.7	0.5941	3443	1031.3000	3551	
7	8	7	49	24.0	66.7	122.8	20.7	0.5941	3697	1031.3000	3813	
8	9	8	37	24.0	65.8	122.7	11.6	0.5941	2766	1031.3000	2853	
9	10	9	36	24.0	67.6	122.5	11.2	0.5941	2714	1031.3000	2799	
10	11	10	38	24.0	66.9	122.5	12.5	0.5941	2864	1031.3000	2943	
11	12	11	35	24.0	66.4	122.4	10.1	0.5941	2593	1031.3000	2674	
12	13	12	33	24.0	65.7	122.4	9.5	0.5941	2506	1031.3000	2584	
13	14	13	35	24.0	65.6	122.4	10.2	0.5941	2594	1031.3000	2675	
14	15	14	37	24.0	66.2	122.6	11.5	0.5941	2755	1031.3000	2841	
15	16	15	37	24.0	66.4	122.7	11.7	0.5941	2770	1031.3000	2857	
16	17	16	39	24.0	66.3	122.8	12.8	0.5941	2919	1031.3000	3010	
17	18	17	40	24.0	66.7	122.9	13.8	0.5941	3015	1031.3000	3109	
18	19	18	42	24.0	66.7	122.9	14.7	0.5941	3135	1031.3000	3233	
19	20	19	40	24.0	66.3	122.9	13.3	0.5941	2993	1031.3000	3087	
20	21	20	41	24.0	66.4	122.9	14.5	0.5941	3105	1031.3000	3202	
21	22	21	46	24.0	65.8	122.9	17.3	0.5941	3409	1031.3000	3516	
22	23	22	48	24.0	64.9	122.9	18.8	0.5941	3570	1031.3000	3682	
23	24	23	47	24.0	65.1	122.9	18.7	0.5941	3556	1031.3000	3667	
24	25	24	47	24.0	65.3	122.9	18.2	0.5941	3508	1031.3000	3618	
25	26	25	39	24.0	65.2	123.0	13.0	0.5941	2957	1031.3000	3050	
26	27	26	39	24.0	65.4	122.9	12.4	0.5941	2895	1031.3000	2986	
27	28	27	43	24.0	65.2	122.8	15.4	0.5941	3225	1031.3000	3326	
28	29	28	45	24.0	65.9	122.9	17.0	0.5941	3375	1031.3000	3481	
29	30	29	45	24.0	66.0	122.8	17.3	0.5941	3402	1031.3000	3508	
30	31	30	44	24.0	66.7	122.7	16.5	0.5941	3330	1031.3000	3434	
31	1	31	47	24.0	64.9	122.6	18.4	0.5941	3509	1031.3000	3619	
Total									98652		101740	

GAS QUALITY INFORMATION													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
08/01/00	C	1.0	0.6850	1.2960	0.0000	95.4380	1.6260	0.3770	0.1020	0.1330	0.0570	0.0480	0.2380

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 08/00

09/08/00 18:44:19
 PAGE 5

METER ID: 002520-02
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, Lolita
 PHONE #: 5044695903

----- METER INFORMATION -----										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
08/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

----- VOLUME INFORMATION -----											
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth
1	2	1	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
2	3	2	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
3	4	3	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
4	5	4	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
5	6	5	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
6	7	6	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
7	8	7	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
8	9	8	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
9	10	9	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
10	11	10	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
11	12	11	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
12	13	12	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
13	14	13	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
14	15	14	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
15	16	15	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
16	17	16	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
17	18	17	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
18	19	18	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
19	20	19	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
20	21	20	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
21	22	21	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
22	23	22	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
23	24	23	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
24	25	24	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
25	26	25	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
26	27	26	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
27	28	27	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
28	29	28	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
29	30	29	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
30	31	30	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
31	1	31	0	0.0	0.0	14.7	0.0	0.5941	0	1031.3000	0
Total									0	0	0

----- GAS QUALITY INFORMATION -----													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	CG+
08/01/00	C	1.0	0.6850	1.2960	0.0000	95.4380	1.6260	0.3770	0.1020	0.1330	0.0570	0.0480	0.2380

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 09/00

10/06/00 18:57:40
 PAGE 4

METER ID: 002520-01
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, Lela
 PHONE #: 5044695903

----- METER INFORMATION -----										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
09/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

----- VOLUME INFORMATION -----												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth	
1	2	1	44	24.0	65.5	122.6	16.3	0.5980	3306	1032.8000	3414	
2	3	2	41	24.0	65.6	122.7	14.1	0.5980	3082	1032.8000	3183	
3	4	3	40	24.0	66.9	122.8	13.6	0.5980	2995	1032.8000	3093	
4	5	4	43	24.0	66.7	122.7	15.9	0.5980	3213	1032.8000	3318	
5	6	5	47	24.0	65.7	122.7	18.7	0.5980	3512	1032.8000	3627	
6	7	6	49	24.0	63.2	122.6	20.0	0.5980	3643	1032.8000	3762	
7	8	7	45	24.0	63.3	122.5	17.3	0.5980	3368	1032.8000	3478	
8	9	8	41	24.0	63.8	122.6	14.7	0.5980	3096	1032.8000	3198	
9	10	9	41	24.0	64.4	122.6	14.2	0.5980	3048	1032.8000	3148	
10	11	10	33	24.0	65.6	122.7	10.6	0.5980	2486	1032.8000	2568	
11	12	11	33	24.0	67.3	122.6	9.5	0.5980	2435	1032.8000	2515	
12	13	12	40	24.0	65.4	122.4	14.2	0.5980	2993	1032.8000	3091	
13	14	13	48	24.0	64.9	122.4	19.5	0.5980	3561	1032.8000	3678	
14	15	14	47	24.0	65.9	122.6	19.8	0.5980	3519	1032.8000	3634	
15	16	15	45	24.0	63.8	122.5	17.0	0.5980	3360	1032.8000	3470	
16	17	16	48	24.0	61.9	122.3	19.5	0.5980	3605	1032.8000	3723	
17	18	17	53	24.0	62.0	122.3	23.6	0.5980	3944	1032.8000	4073	
18	19	18	58	24.0	61.8	122.5	27.8	0.5980	4312	1032.8000	4453	
19	20	19	56	24.0	63.3	122.6	26.8	0.5980	4224	1032.8000	4363	
20	21	20	58	24.0	63.9	122.6	27.7	0.5980	4316	1032.8000	4458	
21	22	21	57	24.0	63.2	122.6	26.9	0.5980	4243	1032.8000	4382	
22	23	22	51	24.0	63.1	122.4	22.0	0.5980	3826	1032.8000	3951	
23	24	23	46	24.0	64.1	122.5	18.2	0.5980	3468	1032.8000	3582	
24	25	24	47	24.0	64.3	122.5	18.8	0.5980	3513	1032.8000	3628	
25	26	25	57	24.0	60.5	122.3	27.3	0.5980	4269	1032.8000	4409	
26	27	26	61	24.0	59.7	122.1	31.2	0.5980	4588	1032.8000	4738	
27	28	27	59	24.0	60.5	122.2	30.0	0.5980	4449	1032.8000	4595	
28	29	28	61	24.0	60.6	122.2	31.9	0.5980	4593	1032.8000	4744	
29	30	29	60	24.0	60.4	122.3	30.1	0.5980	4499	1032.8000	4647	
30	1	30	57	24.0	60.8	122.3	27.0	0.5980	4266	1032.8000	4406	
Total									109732		113329	

----- GAS QUALITY INFORMATION -----													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	YC5	NC5	C6+
09/01/00	C	0.6	0.7190	1.4570	0.0000	95.0320	1.7050	0.4410	0.1130	0.1490	0.0720	0.0710	0.2410

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 09/00

10/06/00 10:57:40
 PAGE 5

ORDER ID: 002520-02
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, Liola
 PHONE #: 5044695903

METER INFORMATION										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
09/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth	
1	2	1	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
2	3	2	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
3	4	3	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
4	5	4	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
5	6	5	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
6	7	6	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
7	8	7	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
8	9	8	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
9	10	9	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
10	11	10	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
11	12	11	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
12	13	12	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
13	14	13	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
14	15	14	2	0.3	69.1	122.3	17.4	0.5980	50	1032.8000	52	
15	16	15	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
16	17	16	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
17	18	17	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
18	19	18	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
19	20	19	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
20	21	20	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
21	22	21	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
22	23	22	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
23	24	23	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
24	25	24	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
25	26	25	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
26	27	26	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
27	28	27	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
28	29	28	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
29	30	29	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
30	1	30	0	0.0	0.0	14.7	0.0	0.5980	0	1032.8000	0	
Total									50		52	

GAS QUALITY INFORMATION													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	O2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
09/01/00	C	0.6	0.7190	1.4570	0.0000	95.0320	1.7050	0.4410	0.1130	0.1490	0.0720	0.0710	0.2410

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 10/00

11/13/00 13:13:39
 PAGE 4

METER ID: 002520-01
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, Liola
 PHONE #: 5044695903

----- METER INFORMATION -----										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
10/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

----- VOLUME INFORMATION -----											
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth
1	2	1	57	24.0	61.5	122.2	26.8	0.6018	4226	1028.8000	4348
2	3	2	61	24.0	61.6	122.3	30.6	0.6018	4516	1028.8000	4646
3	4	3	61	24.0	60.9	122.3	30.8	0.6018	4529	1028.8000	4659
4	5	4	59	24.0	61.1	122.4	29.1	0.6018	4431	1028.8000	4559
5	6	5	57	24.0	61.9	122.4	26.9	0.6018	4245	1028.8000	4367
6	7	6	64	24.0	58.5	122.1	34.6	0.6018	4805	1028.8000	4943
7	8	7	71	24.0	57.9	121.9	42.4	0.6018	5304	1028.8000	5457
8	9	8	82	24.0	57.4	121.7	59.4	0.6018	6159	1028.8000	6336
9	10	9	79	24.0	57.1	121.4	60.3	0.6018	5928	1028.8000	6099
10	11	10	78	24.0	57.1	121.4	54.7	0.6018	5818	1028.8000	5986
11	12	11	73	24.0	57.1	121.5	48.4	0.6018	5457	1028.8000	5614
12	13	12	70	24.0	56.8	121.7	43.0	0.6018	5218	1028.8000	5368
13	14	13	68	24.0	56.7	121.8	40.2	0.6018	5112	1028.8000	5259
14	15	14	61	24.0	56.4	121.7	32.6	0.6018	4609	1028.8000	4742
15	16	15	60	24.0	56.2	121.8	31.1	0.6018	4497	1028.8000	4627
16	17	16	60	24.0	56.8	122.0	30.3	0.6018	4498	1028.8000	4628
17	18	17	59	24.0	56.4	122.0	29.2	0.6018	4434	1028.8000	4562
18	19	18	50	24.0	55.6	121.9	22.1	0.6018	3766	1028.8000	3874
19	20	19	60	24.0	55.7	121.9	29.9	0.6018	4491	1028.8000	4620
20	21	20	56	24.0	55.7	121.9	26.1	0.6018	4182	1028.8000	4302
21	22	21	52	24.0	56.4	122.0	22.7	0.6018	3899	1028.8000	4011
22	23	22	58	24.0	56.8	122.1	28.6	0.6018	3978	1028.8000	4093
23	24	23	58	24.0	56.2	122.2	27.8	0.6018	4340	1028.8000	4465
24	25	24	54	24.0	56.0	122.0	24.7	0.6018	4059	1028.8000	4176
25	26	25	58	24.0	55.9	122.0	24.1	0.6018	3997	1028.8000	4112
26	27	26	57	24.0	55.7	121.9	27.1	0.6018	4271	1028.8000	4394
27	28	27	55	24.0	55.8	122.1	25.3	0.6018	4123	1028.8000	4242
28	29	28	54	25.0	56.1	122.2	24.2	0.6018	4211	1028.8000	4332
29	30	29	53	24.0	56.0	122.1	23.7	0.6018	4009	1028.8000	4124
30	31	30	56	24.0	55.7	122.1	26.2	0.6018	4186	1028.8000	4307
31	1	31	58	24.0	55.6	122.0	27.7	0.6018	4334	1028.8000	4459
Total									141632		145711

----- GAS QUALITY INFORMATION -----													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
10/01/00	C	4.8	0.9520	1.6850	0.0000	94.7460	1.4480	0.4470	0.1180	0.1660	0.0850	0.0760	0.2770

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 10/00

11/13/00 13:13:39
 PAGE 5

METER ID: 002520-02
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Or111ca

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Loaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: Matthews, L101a
 PHONE #: 5044695903

----- METER INFORMATION -----										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
10/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

----- VOLUME INFORMATION -----												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth	
1	2	1	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
2	3	2	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
3	4	3	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
4	5	4	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
5	6	5	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
6	7	6	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
7	8	7	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
8	9	8	6	2.6	57.0	121.2	19.2	0.6018	553	1028.8000	569	
9	10	9	13	6.6	57.9	121.2	18.0	0.6018	1337	1028.8000	1376	
10	11	10	12	4.8	57.1	120.9	20.3	0.6018	1020	1028.8000	1049	
11	12	11	12	4.9	57.3	121.0	18.8	0.6018	1099	1028.8000	1038	
12	13	12	7	3.0	57.2	121.2	15.3	0.6018	570	1028.8000	586	
13	14	13	1	0.0	54.9	121.2	0.3	0.6018	0	1028.8000	0	
14	15	14	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
15	16	15	0	0.0	53.8	121.7	0.3	0.6018	0	1028.8000	0	
16	17	16	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
17	18	17	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
18	19	18	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
19	20	19	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
20	21	20	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
21	22	21	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
22	23	22	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
23	24	23	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
24	25	24	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
25	26	25	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
26	27	26	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
27	28	27	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
28	29	28	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
29	30	29	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
30	31	30	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
31	1	31	0	0.0	0.0	14.7	0.0	0.6018	0	1028.8000	0	
Total									4489		4618	

----- GAS QUALITY INFORMATION -----														
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+	
10/01/00	C	4.8	0.9520	1.6850	0.0000	94.7460	1.4480	0.4470	0.1180	0.1660	0.0850	0.0760	0.2770	

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 11/00

12/07/00 18:27:20
 PAGE 4

REF ID: 002520-01
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: MATTHEWS, LOLA - X-264
 PHONE #: 5044695903

METER INFORMATION										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
11/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth	
1	2	1	57	24.0	56.3	122.1	26.9	0.5967	4282	1028.3000	4403	
2	3	2	57	24.0	56.0	122.1	27.3	0.5967	4311	1028.3000	4433	
3	4	3	57	24.0	56.0	122.0	26.6	0.5967	4267	1028.3000	4388	
4	5	4	55	24.0	56.2	122.0	25.2	0.5967	4140	1028.3000	4257	
5	6	5	54	24.0	56.2	121.6	24.3	0.5967	4064	1028.3000	4179	
6	7	6	51	24.0	55.9	121.6	22.1	0.5967	3867	1028.3000	3976	
7	8	7	55	24.0	56.7	122.8	25.4	0.5967	4169	1028.3000	4287	
8	9	8	57	24.0	56.9	123.1	27.0	0.5967	4305	1028.3000	4427	
9	10	9	66	24.0	53.2	122.6	37.8	0.5967	4959	1028.3000	5099	
10	11	10	76	24.0	53.6	122.6	50.1	0.5967	5728	1028.3000	5890	
11	12	11	76	24.0	53.6	122.3	50.3	0.5967	5714	1028.3000	5876	
12	13	12	65	24.0	53.8	122.5	37.7	0.5967	4938	1028.3000	5078	
13	14	13	84	24.0	52.8	122.3	62.7	0.5967	6343	1028.3000	6523	
14	15	14	57	24.0	52.8	122.2	33.5	0.5967	4290	1028.3000	4411	
15	16	15	70	24.0	53.0	122.3	54.1	0.5967	5264	1028.3000	5413	
16	17	16	73	24.0	52.3	122.4	52.3	0.5967	5480	1028.3000	5635	
17	18	17	50	24.0	51.4	122.1	20.6	0.5967	3767	1028.3000	3874	
18	19	18	57	24.0	50.2	121.5	27.2	0.5967	4332	1028.3000	4455	
19	20	19	54	24.0	49.8	121.7	25.4	0.5967	4106	1028.3000	4222	
20	21	20	51	24.0	49.7	121.7	22.8	0.5967	3873	1028.3000	3983	
21	22	21	60	24.0	49.4	121.1	29.9	0.5967	4518	1028.3000	4646	
22	23	22	63	24.0	49.0	121.3	45.6	0.5967	4769	1028.3000	4904	
23	24	23	73	24.0	48.5	121.6	46.7	0.5967	5505	1028.3000	5661	
24	25	24	68	24.0	48.3	121.6	43.0	0.5967	5131	1028.3000	5276	
25	26	25	66	24.0	47.6	121.4	45.9	0.5967	4995	1028.3000	5136	
26	27	26	75	24.0	47.5	121.4	53.6	0.5967	5670	1028.3000	5830	
27	28	27	57	24.0	47.7	121.6	34.7	0.5967	4331	1028.3000	4454	
28	29	28	78	24.0	47.1	121.5	58.1	0.5967	5916	1028.3000	6083	
29	30	29	82	24.0	46.9	121.5	63.7	0.5967	6206	1028.3000	6382	
30	1	30	55	24.0	46.9	121.4	33.6	0.5967	4213	1028.3000	4332	
Total									148453		147513	

GAS QUALITY INFORMATION													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
11/01/00	C	5.2	0.7860	1.5100	0.0000	95.1680	1.5160	0.4120	0.1030	0.1440	0.0710	0.0730	0.2170

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 11/00

12/07/00 18:27:20
 PAGE 5

METER ID: 002520-02
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Koch Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: MATTHEWS, LOLA - X-264
 PHONE #: 5044695903

METER INFORMATION										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
11/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dch	
1	2	1	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
2	3	2	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
3	4	3	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
4	5	4	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
5	6	5	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
6	7	6	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
7	8	7	0	0.0	0.0	14.7	0.0	0.5967	0	1028.3000	0	
8	9	8	0	0.2	54.8	122.8	0.3	0.5967	4	1028.3000	4	
9	10	9	6	5.9	53.3	122.5	11.4	0.5967	396	1028.3000	407	
10	11	10	5	1.3	54.4	122.6	14.7	0.5967	250	1028.3000	257	
11	12	11	6	1.8	54.3	122.1	16.4	0.5967	340	1028.3000	350	
12	13	12	2	0.6	55.1	122.2	15.2	0.5967	116	1028.3000	119	
13	14	13	12	5.2	53.1	121.8	24.3	0.5967	1059	1028.3000	1089	
14	15	14	35	20.1	52.8	122.1	18.6	0.5967	3567	1028.3000	3668	
15	16	15	28	14.6	53.8	122.3	16.5	0.5967	2538	1028.3000	2610	
16	17	16	19	8.3	52.6	122.3	16.6	0.5967	1629	1028.3000	1675	
17	18	17	49	24.0	51.4	122.1	20.4	0.5967	5232	1028.3000	5380	
18	19	18	57	24.0	50.2	121.5	27.0	0.5967	6030	1028.3000	6201	
19	20	19	44	24.0	50.1	121.7	21.4	0.5967	4647	1028.3000	4779	
20	21	20	46	24.0	50.1	121.7	23.1	0.5967	4917	1028.3000	5056	
21	22	21	53	24.0	49.7	121.2	29.4	0.5967	5644	1028.3000	5804	
22	23	22	36	23.7	49.4	121.3	18.6	0.5967	3773	1028.3000	3880	
23	24	23	11	22.5	48.7	121.5	9.1	0.5967	1102	1028.3000	1133	
24	25	24	9	23.6	48.2	121.5	5.0	0.5967	984	1028.3000	1012	
25	26	25	24	23.7	47.0	121.1	14.5	0.5967	2593	1028.3000	2666	
26	27	26	22	12.7	47.6	121.1	22.4	0.5967	2008	1028.3000	2065	
27	28	27	39	19.1	47.4	121.4	20.1	0.5967	3987	1028.3000	4100	
28	29	28	20	20.1	47.7	121.5	17.3	0.5967	1979	1028.3000	2035	
29	30	29	20	17.8	47.1	121.3	20.8	0.5967	1979	1028.3000	2035	
30	1	30	43	20.8	46.8	121.2	21.7	0.5967	4292	1028.3000	4413	
Total									59066		60738	

GAS QUALITY INFORMATION													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
11/01/00	C	5.2	0.7860	1.5100	0.0000	95.1680	1.5160	0.4120	0.1030	0.1440	0.0710	0.0730	0.2170

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 12/00

01/08/01 19:18:57
 PAGE 4

METER ID: 002520-01
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: MATTHEWS, LOLA - X-264
 PHONE #: 5044695903

METER INFORMATION										
EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
12/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION												
DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dch	
1	2	1	75	24.0	46.6	121.6	53.8	0.5972	5723	1037.6000	5938	
2	3	2	58	24.0	46.4	121.4	37.1	0.5972	4427	1037.6000	4593	
3	4	3	52	24.0	45.6	121.1	24.5	0.5972	3964	1037.6000	4113	
4	5	4	59	24.0	47.5	121.0	29.6	0.5972	4458	1037.6000	4626	
5	6	5	59	24.0	48.7	121.1	33.6	0.5972	4483	1037.6000	4652	
6	7	6	54	24.0	48.1	121.1	25.2	0.5972	4129	1037.6000	4284	
7	8	7	54	24.0	45.1	121.4	29.4	0.5972	4127	1037.6000	4282	
8	9	8	67	24.0	45.1	121.5	50.4	0.5972	5099	1037.6000	5291	
9	10	9	71	24.0	46.4	121.6	46.2	0.5972	5411	1037.6000	5614	
10	11	10	71	24.0	46.1	121.6	45.3	0.5972	5360	1037.6000	5562	
11	12	11	66	24.0	46.6	121.8	39.1	0.5972	5013	1037.6000	5201	
12	13	12	61	24.0	46.3	121.1	31.3	0.5972	4610	1037.6000	4783	
13	14	13	74	24.0	45.1	121.3	52.0	0.5972	5586	1037.6000	5796	
14	15	14	57	24.0	44.6	120.8	27.3	0.5972	4341	1037.6000	4504	
15	16	15	64	24.0	44.8	121.0	41.0	0.5972	4864	1037.6000	5047	
16	17	16	66	24.0	45.0	121.2	41.7	0.5972	5054	1037.6000	5244	
17	18	17	57	24.0	43.4	120.5	27.2	0.5972	4336	1037.6000	4499	
18	19	18	62	24.0	44.6	120.8	42.2	0.5972	4697	1037.6000	4874	
19	20	19	61	24.0	46.9	120.3	34.7	0.5972	4609	1037.6000	4782	
20	21	20	66	24.0	46.1	120.4	38.4	0.5972	4982	1037.6000	5169	
21	22	21	63	24.0	42.5	120.3	32.8	0.5972	4772	1037.6000	4951	
22	23	22	63	24.0	42.1	120.2	37.3	0.5972	4844	1037.6000	5026	
23	24	23	56	24.0	41.9	120.7	27.9	0.5972	4279	1037.6000	4440	
24	25	24	64	24.0	41.3	121.1	45.5	0.5972	4866	1037.6000	5049	
25	26	25	49	24.0	41.6	120.9	20.6	0.5972	3762	1037.6000	3903	
26	27	26	63	24.0	41.6	121.2	41.5	0.5972	4801	1037.6000	4982	
27	28	27	53	24.0	41.2	120.7	23.5	0.5972	4033	1037.6000	4185	
28	29	28	62	24.0	41.0	120.4	33.0	0.5972	4774	1037.6000	4954	
29	30	29	64	24.0	41.0	120.4	35.2	0.5972	4926	1037.6000	5111	
30	31	30	71	24.0	41.2	120.0	43.0	0.5972	5453	1037.6000	5658	
31	1	31	55	24.0	40.3	120.4	26.7	0.5972	4219	1037.6000	4378	
Total									146002		151491	

GAS QUALITY INFORMATION													
EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
12/01/00	C	2.2	0.6190	1.2840	0.0000	95.0180	1.8760	0.5500	0.1450	0.1690	0.0720	0.0650	0.1930

To: Brian Ketchum
 From: Karl Ficker

Page 1 of 24

Koch Gateway Pipeline Company
 DETAIL METER STATEMENT
 FOR THE MONTH OF 12/00

01/08/01 19:18:57
 PAGE 5

METER ID: 002520-02
 LOCATION: HATTIESBURG CITY GATE #1
 TYPE METER: EFM Orifice

SYSTEM: 007:Mississippi
 SUBSYSTEM: 014:Jackson to Leaksville 16" & 8"
 PURPOSE: Custody Delivery

CONTRACT TIME: 09:00
 ANALYST: MATTHEWS, LOLA - X-264
 PHONE #: 5044695903

METER INFORMATION

EFFECTIVE DATE	REF NUM	STATIC RANGE	DIFF RANGE	TUBE SIZE	PLATE SIZE	TAP TYPE	TAP LOCA	CHART DAYS	MACHINE CONSTANT	CALC TYPE
12/01/00	1	500	100	8.072	3.250	P	U	1	1.0000	14

VOLUME INFORMATION

DAY ON	DAY OFF	REF NUM	FLOW EXTENT	FLOW HOURS	TEMP	PRES PSIA	DIFF	SPEC GRAV	MCF VOLUME @ 14.730	BTU(D)	Dth
1	2	1	19	24.0	47.5	121.7	14.7	0.5972	1970	1037.6000	2044
2	3	2	40	23.8	46.1	121.3	19.7	0.5972	4280	1037.6000	4441
3	4	3	48	24.0	45.8	121.1	24.1	0.5972	5098	1037.6000	5290
4	5	4	58	24.0	47.5	121.0	29.2	0.5972	6172	1037.6000	6404
5	6	5	50	24.0	48.8	121.0	25.7	0.5972	5320	1037.6000	5520
6	7	6	54	24.0	48.1	121.1	25.1	0.5972	5756	1037.6000	5972
7	8	7	44	23.9	45.2	121.3	19.8	0.5972	4736	1037.6000	4914
8	9	8	27	24.0	45.6	121.5	14.7	0.5972	2920	1037.6000	3030
9	10	9	11	20.1	47.0	121.5	9.1	0.5972	1111	1037.6000	1153
10	11	10	12	19.7	46.9	121.6	10.3	0.5972	1254	1037.6000	1301
11	12	11	13	12.1	46.0	121.3	23.8	0.5972	1222	1037.6000	1268
12	13	12	60	24.0	46.3	121.1	31.2	0.5972	6423	1037.6000	6665
13	14	13	30	23.1	45.4	121.1	24.3	0.5972	3184	1037.6000	3304
14	15	14	57	24.0	44.6	120.8	27.3	0.5972	6057	1037.6000	6285
15	16	15	37	22.1	44.8	120.9	23.1	0.5972	3894	1037.6000	4040
16	17	16	23	13.1	43.1	120.6	26.8	0.5972	2337	1037.6000	2425
17	18	17	48	24.0	43.8	120.5	25.8	0.5972	5141	1037.6000	5334
18	19	18	40	24.0	44.9	120.7	23.2	0.5972	4213	1037.6000	4371
19	20	19	59	24.0	47.0	120.3	34.0	0.5972	6246	1037.6000	6481
20	21	20	66	24.0	46.1	120.4	38.4	0.5972	6960	1037.6000	7222
21	22	21	62	24.0	42.5	120.3	32.8	0.5972	6662	1037.6000	6912
22	23	22	63	24.0	42.1	120.2	37.4	0.5972	6763	1037.6000	7017
23	24	23	56	24.0	41.9	120.7	27.8	0.5972	5960	1037.6000	6184
24	25	24	36	19.7	41.3	120.9	20.2	0.5972	3698	1037.6000	3837
25	26	25	49	24.0	41.6	120.9	20.6	0.5972	5236	1037.6000	5433
26	27	26	33	24.0	42.0	121.2	18.3	0.5972	3497	1037.6000	3628
27	28	27	53	24.0	41.2	120.7	23.4	0.5972	5621	1037.6000	5832
28	29	28	62	24.0	41.0	120.4	32.9	0.5972	6662	1037.6000	6912
29	30	29	64	24.0	41.0	120.4	35.1	0.5972	6872	1037.6000	7130
30	31	30	71	24.0	41.2	120.0	43.0	0.5972	7615	1037.6000	7901
31	1	31	55	24.0	40.3	120.4	26.6	0.5972	5878	1037.6000	6099
Total									148758		154349

GAS QUALITY INFORMATION

EFFECTIVE DATE	SAMPLE TYPE	WATER CONTENT	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6+
12/01/00	C	2.2	0.6190	1.2840	0.0000	95.0180	1.8760	0.5590	0.1450	0.1690	0.0720	0.0650	0.1930

Kymene Process Area

Kymene Process Area Report Summary

Kymene Reactor Scrubber (AA-001)

As required by 5.B.14, weekly operator maintenance checks were performed on the Kymene Reactor Scrubber (AA-001). No problems were noted during the weekly operator visual inspections.

Adipic Acid Dust Shaker (AA-002)

As required by 5.B.14, weekly operator and mechanic maintenance checks were performed on the Adipic Acid Dust Shaker (AA-002). No problems were noted during the weekly inspections.

As required by 5.B.8 (and 5.A.4 data reporting), the amount of raw material processed and hours operated were recorded daily, and the records are included in this section.

Emission Point – AA002
Adipic Acid Handling System with a Dust Collector

Date	Time	Polymer Batch #	Adipic Acid Charge Time	Adipic Acid Total Charge		Adipic Acid Charge Rate	Comments
				Minutes	Boxes Sack		
11/25/00	12:58P	475	90	5/6	12,028	4	
11/30/00	7:02P	476	90	5/6	12,237	4	
11/30/00	3:51A	477	90	5/6	12,031	4	
12/1/00	3:30P	478	90	5/6	12,022	4	
12/2/00	1:46A	479	90	5/6	12,012	4	
12/4/00	3:24P	480	90	5/6	12,004	4	
12/06/00	5:09P	481	90	5/6	12,009	4	
12/6/00	1:45A	482	90	5/6	12,018	4	
12/07/00	10:23A	483	90	5/6	12,002	4	
12/07/00	7:20P	484	90	5/6	12,000	4	
12/09/00	12:40A	485	90	5/6	12,014	4	
12/14/00	9:53A	486	90	5/6	11,963	4	
12/10/00	5:40P	487	90	5/6	12,002	4	
12/10/00	2:27A	488	90	5/6	12,005	4	
12/11/00	3:15P	489	90	5/6	12,008	4	
12-15-00	10:15 ^A	490	90	5/6	12,066	4	
12-15-00	6:45 ^P	491	90	5/6	12,009	4	
12-16-00	5:54P	492	90	5/6	12,012	4	
12-16-00	12:40A	493	90	5/6	12,008	4	
12-17-00	10:40P	494	90	5/6	12,005	4	
12/21/00	3:12P	495	90	5/6	12,007	4	
12/23/00	6:12 ^{PM}	496	90	5/6	12,001	4	
12/23/00	4:01 ^{AM}	497	90	5/6	12,002	4	
12-25-00	8:59 ^{PM}	498	90	5/6	12,018	4	
12/26/00	12:35A	499	90	5/6	12,003	4	
12-30-00	9:11 ^{AM}	500	90	5/6	12,009	4	
12/31/00	9:03A	501	90	5/6	12,026	4	
12-31-00	8:59 ^{PM}	502	90	5/6	12,013	4	
01-01-01	8:28 ^{AM}	503	90	5/6	12,006	4	

Emission Point – AA002
Adipic Acid Handling System with a Dust Collector

Date	Time	Polymer Batch #	Adipic Acid Charge Time	Adipic Acid Total Charge		Adipic Acid Charge Rate	Comments
				Minutes	Bags/Sacks		
M-D-Y	A=AM P=PM						
10/25/00	P 12:45	446	90	5/6	12,006	4	
10/25/00	P 7:25	447	90	5/6	12,006	4	
10/28/00	A 9:17	448	90	5/6	12,005	4	
10/28/00	P 6:29	449	90	5/6	12,008	4	
10/28/00	A 2:15	450	90	5/6	12,004	4	
10/30/00	1:24 A	451	90	5/6	12,017	4	
10/31/00	10:00 A	452	90	5/6	12,007	4	
10/31/00	5:49 P	453	90	5/6	12,016	4	
11/2/00	6:11 P	454	90	5/6	12,016	4	
11/2/00	2:08 A	455	90	5/6	11,996	4	
11/3/00	9:46 A	456	90	5/6	12,033	4	
11/4/00	1:30 A	457	90	5/6	12,009	4	
11/7/00	5:20 P	458	90	5/6	12,021	4	
11/8/00	2:43 A	459	90	5/6	12,003	4	
11/10/00	4:58 P	460	90	5/6	12,041	4	
11/10/00	12:56 A	461	90	5/6	12,006	4	
11/11/00	8:26 A	462	90	5/6	11,997	4	
11/12/00	8:09 P	463	90	5/6	12,018	4	
11/14/00	5:24 P	464	90	5/6	12,032	4	
11/14/00	12:50 A	465	90	5/6	12,021	4	
11-14-00	10:48 A	466	90	5/6	12,039	4	
11/17/00	12:57 A	467	90	5/6	12,021	4	
11/18/00	9:40 A	468	90	5/6	12,013	4	
11/18/00	5:15 P	469	90	5/6	12,011	4	
11/19/00	6:30 A	470	90	5/6	12,017	4	
11/19/00	5:00 P	471	90	5/6	12,019	4	
11/19/00	10:27 A	472	90	5/6	12,032	4	
11/21/00	4:45 P	473	90	5/6	12,030	4	
11/21/00	3:58 A	474	90	5/6	12,034	4	

Emission Point - AA002
Adipic Acid Handling System Equipment with a Dust Shaker

Date	Batch Number	Adipic Acid Addition Time	Adipic Acid Total Charge	Adipic Acid Total Charge	Adipic Acid Total Charge	Comments
(M-D-Y)		minutes	boxes	pounds	ton/hr	
8/23/00	398	90	8	12000	4	
8/24/00	399	90	8	12000	4	
8/25/00	400	90	8	12000	4	
8/26/00	401	90	8	12000	4	
8/28/00	402	90	8	12000	4	
8/27/00	403	90	8	12000	4	
8/27/00	404	90	8	12000	4	
8/30/00	405	90	8	12000	4	
8/31/00	406	90	8	12000	4	
9/1/00	407	90	8	12000	4	
9/1/00	408	90	8	12000	4	
9/3/00	409	90	8	12000	4	
9/3/00	410	90	8	12000	4	
9/4/00	411	90	8	12000	4	
9/4/00	412	90	8	12000	4	
9/4/00	413	90	8	12000	4	
9/5/00	414	90	8	12000	4	
9/8/00	415	90	8	12000	4	
9/13/00	416	90	8	12000	4	
9/14/00	417	90	8	12000	4	
9/15/00	418	90	8	12000	4	
9/16/00	419	90	8	12000	4	
9/16/00	420	90	8	12000	4	
9/16/00	421	90	8	12000	4	
9/17/00	422	90	8	12000	4	
9/17/00	423	90	8	12000	4	
9/29/00	424	90	6	12000	4	6 SuperSacks Start
9/30/00	425	90	6	12000	4	"
10/2/00	426	90	6	12017	4	"
10/3/00	427	90	6	12007	4	"
10/4/00	428	90	6	12002	4	"
10/5/00	429	90	6	12008	4	"
10/7/00	430	90	6	12008	4	"
10/9/00	431	90	6	12000	4	"
10/10/00	432	90	6	12008	4	"
10/10/00	433	90	6	12000	4	"
10/11/00	434	90	6	12015	4	"
10/14/00	435	90	6	12017	4	"
10/14/00	436	90	6	12000	4	"
10/14/00	437	90	6	11996	4	"
10/19/00	438	90	6	12001	4	"
10/19/00	439	90	6	12018	4	"
10/19/00	440	90	6	11992	4	"
10/20/00	441	90	6	12008	4	"
10/20/00	442	90	6	11996	4	"
10/20/00	443	90	6	11999	4	"
10/24/00	444	90	6	12005	4	"
10/24/00	445	90	6	12012	4	"

(Emission Point AA002.XLS)

Emission Point - AA002
Adipic Acid Handling System Equipment with a Dust Shaker

Date	Batch Number	Adipic Acid Addition Time	Adipic Acid Total Charge	Adipic Acid Total Charge	Adipic Acid Total Charge	Comments
(M-D-Y)		minutes	boxes	pounds	ton/hr	
6/30/00	352	90	8	12006	4	
7/2/00	351	90	8	12003	4	
7/5/00	352	90	8	12000	4	
7/6/00	353	90	8	12001	4	
7/6/00	354	90	8	12000	4	
7/6/00	355	90	8	12000	4	
7/8/00	356	90	8	12000	4	
7/8/00	357	90	8	12000	4	
7/8/00	358	90	8	12007	4	
7/10/00	359	90	8	12000	4	
7/11/00	360	90	8	12002	4	
7/12/00	361	90	8	12000	4	
7/13/00	362	90	8	12000	4	
7/14/00	363	90	8	11999	4	
7/14/00	364	90	8	12000	4	
7/15/00	365	90	8	12005	4	
7/16/00	366	90	8	12007	4	
7/17/00	367	90	8	12,062	4	
7/17/00	368	90	8	12,000	4	
7/18/00	369	90	8	12,000	4	
7/18/00	370	90	8	12,000	4	
7/19/00	371	90	8	12,000	4	
7/20/00	372	90	8	12,000	4	
7/20/00	373	90	8	12,000	4	
7/20/00	374	90	8	12,000	4	
7/24/00	375	90	8	12006	4	
7/26/00	376	90	8	12000	4	
7/28/00	377	90	8	12004	4	
7/28/00	378	90	8	12000	4	
7/29/00	379	90	8	12001	4	
7/31/00	380	90	8	12002	4	
8/1/00	381	90	8	12000	4	
8/2/00	382	90	8	12000	4	
8/3/00	383	90	8	12004	4	
8/4/00	384	90	8	12,000	4	
8/4/00	385	90	8	12000	4	
8/6/00	386	90	8	12,000	4	
8/6/00	387	90	8	12,000	4	
8/7/00	388	90	8	12,000	4	
8/8/00	389	90	8	12,000	4	
8/9/00	390	90	8	12,004	4	
8/10/00	391	90	8	12,000	4	
8/11/00	392	90	8	12,000	4	
8/16/00	393	90	8	12004	4	
8/17/00	394	90	8	12,000	4	
8/18/00	395	90	8	12002	4	
8/18/00	396	90	8	12000	4	
8/20/00	397	90	8	12009	4	

(Emission Point AA002.XLS)

AKD Process Area

AKD Process Area Report Summary

Paracol Water Scrubber (AB-001)

As required by 5.B.14, weekly operator maintenance checks were performed on the Paracol Water Scrubber (AB-001). No problems were noted during the weekly operator visual inspections.

As required by 5.B.9, water flow rate through the scrubber was recorded on a weekly basis.

Silica Furnace Dust Collector (AL-002)

The Silica Furnace Dust Collector (AL-002) did not operate during this semi-annual reporting period; therefore, the weekly maintenance checks, required by 5.B.14, only noted that the unit was not operating.

As required by 5.B.11 (and 5.A.4 data reporting), the silica processed and the hours operated were not recorded since the unit did not operate.

Title V -- Maintenance Log AKD Area

Date	Initials	Paracol Vent Scrubber, AB001				Silica Furnace Dust Collector, AL002													
		Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks						
		Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No					
12-4-01	JK		✓	5.8		✓													
12-11	BA		✓	5.5		✓													
12-18	JL		✓	5.0		✓													
12-25	JK		✓	5.0		✓													
1-20-01	JK		✓	5.0		✓													

Title V -- Maintenance Log AKD Area

Date		Time, A = AM P = PM		Initials		Paracol® Wax Emulsion Vent Scrubber, AB001				Silica Furnace Dust Collector, AL002									
						Melter Operating		Water flow, gpm		Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks	
												Yes	No	Yes	No	Yes	No	Yes	No
9-18	11:AM	BA	✓	5.8	BA	✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
9-25	7 AM	WMC	✓	5.8		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
10-1-06	7 AM		✓	5.8		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
10-9	9:AM	BA	✓	5.8		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
10-16	10:AM	JK	✓	5.7		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
10-23	9: A	JJ	✓	5.4		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
10-30	8:AM	JK	✓	5.9		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
11-6	8:AM	WMC	✓	5.7		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
11-13	11:30	JJ	✓	5.5		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
11-20	7:30	JK	✓	5.7		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			
11-27	7:30	JK	✓	5.8		✓	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING	NOT OPERATING			

Title V -- Maintenance Log AKD Area

Date	Initials	Paracol Vent Scrubber, AB001				Silica Furnace Dust Collector, AL002													
		Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks						
		Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No					
4-5	ime	✓		5.3		✓		NOT OPERATING		NOT OPERATING		NOT OPERATING		NOT OPERATING					
4-17	JZZ	✓		5.8		✓		NOT OPERATING		NOT OPERATING		NOT OPERATING		NOT OPERATING					

Checked to all 8
 4/17/99
 JZZ

Title V -- Maintenance Log AKD Area

Date	Initials	Paracol Vent Scrubber, AB001						Silica Furnace Dust Collector, AL002								
		Melter Operating		Water flow, gpm	Leaks		Furnace Running		Blower OK		Dust Collector OK		Leaks			
		Yes	No		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
6-5	BA		✓	5.3		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
6-11	none		✓	5.6		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
6-19	JL		✓	5.2		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
6-26	BA		✓	5.6		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
7-3	none		✓	5.5		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
7-10	JL		✓	5.5		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
7-17	BA		✓	5.7		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
7-24	none		✓	5.1		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
7-31	none		✓	5.7		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
8-7	none		✓	5.3		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
8-14	none		✓	5.7		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
8-21	JL		✓	5.5		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→
8-28	none		✓	5.2		✓	NOT OPERATING	→	→	→	→	→	→	→	→	→

HRA Process Area

HRA Process Area Report Summary

HRA Water Scrubber (AG-003)

As required by 5.B.14, weekly operator maintenance checks were performed on the HRA Water Scrubber (AG-003). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

HRA Flaking Belt Dust Collector (AG-005)

As required by 5.B.14, weekly maintenance checks were performed on the HRA Flaking Belt Dust Collector (AG-005). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

As required by 5.B.10, the pressure drop across the baghouse was recorded weekly (or more frequent) while the area is operating.

Hydrogen Generation Process (AK-000)

The Hydrogen Generation Process (AK-000) did not operate during this semi-annual reporting period; therefore, the weekly maintenance checks, required by 5.B.14, only noted that the unit was not operating.

Poly-Pale Process Area

Poly-Pale Process Area Report Summary

Poly-Pale Water Scrubber #1 (AC-002)

As required by 5.B.14, weekly maintenance checks were performed on Poly-Pale Water Scrubber #1 (AC-002). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

Poly-Pale Water Scrubber #2 (AC-003)

As required by 5.B.14, weekly maintenance checks were performed on Poly-Pale Water Scrubber #2 (AC-003). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

Poly-Pale Process Meltor (AC-004)

As required by 5.B.13 (and 5.A.4 data reporting), the amount of raw material processed and hours operated were recorded daily, and the records are included in this section.

EMISSION POINT AC-004 (MELTER)

Report Period:
July - Dec., 2000

Note: No activity on those dates not shown.

DATE	# HOURS	# DRUMS	TOTAL LBS.	TONS/HR.
7/31/00	8	60	29762	1.860
8/1/00	8	40	19841	1.240
8/2/00	8	40	19841	1.240
8/3/00	8	60	29762	1.860
8/4/00	8	60	29762	1.860
8/5/00	8	60	29762	1.860
8/7/00	16	80	39683	1.240
8/8/00	16	120	59524	1.860
8/9/00	16	66	32738	1.023
8/10/00	16	100	49604	1.550
8/11/00	16	80	39683	1.240
8/12/00	16	120	59524	1.860
8/13/00	16	74	36707	1.147
8/14/00	16	120	59524	1.860
8/15/00	16	100	49604	1.550
8/16/00	16	60	29762	0.930
8/17/00	8	40	19841	1.240
8/18/00	8	40	19841	1.240
8/19/00	16	120	59524	1.860
8/20/00	16	120	59524	1.860
8/21/00	16	80	39683	1.240
8/22/00	16	60	29762	0.930
8/23/00	16	80	39683	1.240
8/24/00	16	80	39683	1.240
8/26/00	16	80	39683	1.240
8/27/00	16	80	39683	1.240
8/28/00	8	40	19841	1.240
8/29/00	16	60	29762	0.930
8/30/00	16	80	39683	1.240

EMISSION POINT AC-004 (MELTER)

Report Period:
July - Dec., 2000

Note: No activity on those dates not shown.

DATE	# HOURS	# DRUMS	TOTAL LBS.	TONS/HR.
8/31/00	16	80	39683	1.240
9/1/00	16	80	39683	1.240
11/15/00	8	60	29762	1.860
11/16/00	8	44	21826	1.364
11/17/00	8	40	19841	1.240
11/20/00	16	120	59524	1.860
11/21/00	16	120	59524	1.860
11/22/00	16	120	59524	1.860
11/23/00	16	120	59524	1.860
11/24/00	16	60	29762	0.930
11/25/00	16	120	59524	1.860
11/26/00	16	120	59524	1.860
11/27/00	16	120	59524	1.860
11/28/00	16	100	49604	1.550
11/29/00	8	40	19841	1.240
11/30/00	16	100	49604	1.550
12/1/00	8	20	9921	0.620
12/2/00	16	70	34722	1.085
12/3/00	16	60	29762	0.930
12/4/00	16	60	29762	0.930
12/5/00	16	50	24802	0.775
12/6/00	16	62	30754	0.961
12/7/00	16	60	29762	0.930
12/8/00	16	82	40675	1.271
12/9/00	16	70	34722	1.085
12/10/00	8	20	9921	0.620
12/11/00	16	62	30754	0.961
12/12/00	16	70	34722	1.085
12/13/00	16	80	39683	1.240

RAD Process Area

RAD Process Area Report Summary

Ammonia Packed Bed Scrubber (AF-002)

As required by 5.B.14, weekly maintenance checks were performed on the Ammonia Packed Bed Scrubber (AF-002). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

EO Packed Bed Scrubber (AF-004)

As required by 5.B.14, weekly maintenance checks were performed on the EO Packed Bed Scrubber (AF-004). No problems were noted during the operator visual inspections, which are performed weekly (or more frequent) while the area is operating.

Neuphor Process Area

Neuphor Process Area Report Summary

Adduct Reactor Scrubber (AD-001)

As required by 5.B.14, weekly operator and mechanic maintenance checks were performed on the Adduct Reactor Scrubber (AD-001). No problems were noted during the weekly operator visual inspections.

Dresinol Water Eductor (AD-002)

As required by 5.B.14, weekly operator maintenance checks were performed on the Dresinol Water Eductor (AD-002); however, the unit did not operate during the semi-annual reporting period.

Kymene LDAR Monitoring

Kymene LDAR Monitoring

In Accordance with 40 CFR 63, Subpart W, Subpart H, and Permit Conditions 5.B.1, 5.B.2, 5.B.3, 5.B.4, and 5.C.1, Hercules Incorporated has provided in Attachment A the following required information:

- Report required by 40 CFR 63.182(d)(2);
- Summary report of actual monitoring data; and
- Recordkeeping and reporting of Startup, Shutdown, and Malfunctions per SSM Plan.
 - Form A: SSM Plan Conformance
 - Form B: Nonconformance to SSM Plan (no nonconformance incidents)

No problems or deviations were noted during the weekly visual pump and agitator inspections.

No problems or deviations were noted during the routine monthly LDAR monitoring.

ATTACHMENT A

**Results of Leak Monitoring
Kymene Process
July 1, 2000 through December 31, 2000**

PERIODIC LEAK MONITORING REPORT

July 1, 2000 through December 31, 2000

Hercules Incorporated
Hattiesburg, Mississippi

Kymene Process Area (AA-000)

1. **Number of affected *valves* in HAP service for which leaks were detected as described in § 63.168(b), the percent leakers, and the total number monitored:**
 - No affected valves were discovered leaking ($V_L=0$) during the referenced reporting period (>500 ppm);
 - $[V_L/V_T] * 100 = 0.00\%$ of total valves monitored were leaking based on a 6-month rolling average; and
 - 121 total valves ($V_T=121$) were monitored during the semi-annual reporting period.

2. **Number of *valves* for which leaks were not repaired per § 63.168(f), identifying the number of those that are determined non-repairable:**
 - No affected valves were discovered leaking.

3. **Number of affected *pumps* in HAP service for which leaks were detected as described in § 63.163(b), the percent leakers, and the total number monitored:**
 - No affected pumps were discovered leaking (P_L) during the referenced reporting period ($>1,000$ ppm or visible leak);
 - $[P_L/P_T] * 100 = 0.00\%$ of total pumps monitored were leaking based on a 6-month rolling average; and
 - 3 affected pumps monitored 6 times for a total of 18 pumps (P_T) monitored during the semi-annual reporting period.

4. **Number of *pumps* for which leaks were not repaired per § 63.163(c):**
 - No affected pumps were discovered leaking.

5. **Number of affected *agitators* in HAP service for which leaks were detected as described in § 63.173(a) & (b):**
 - No affected agitators were discovered leaking during the referenced reporting period ($>10,000$ ppm or visible leak);

6. **Number of *agitators* for which leaks were not repaired per § 63.173(c):**
 - No affected agitators were discovered leaking.
7. **Number of affected *connectors* in HAP service for which leaks were detected as described in § 63.174(a), the percent leaking, and the total number monitored:**
 - 2 affected connectors were discovered leaking ($C_L=2$) during the referenced reporting period (>500 ppm);
 - $[C_L/C_T] * 100 = 0.56\%$ of total connectors were leaking; and
 - 355 total connectors ($C_T=355$) were monitored during the semi-annual reporting period.
8. **Number of *connectors* for which leaks were not repaired per § 63.174(d), identifying the number of those that are determined non-repairable:**
 - The connector leaks were repaired in accordance with § 63.174(d); and
 - No leaks were determined non-repairable.
9. **Explain any *delay of repairs*:**
 - All applicable repairs were made in a timely fashion.
10. **Results of all monitoring within semi-annual reporting period to show compliance with § 63.165(a), *pressure relief device releases*:**
 - The rupture disk on the Kymene reactor failed on two (2) occasions, and was replaced within five (5) days each time.
11. **Notification of a change in *connector monitoring alternatives* as described in §63.174(c)(1):**
 - As allowed in §63.174(c)(1)(ii), Hercules Incorporated is changing connector monitoring alternatives. Instead of monitoring opened or broken connectors for leaks within three (3) months of being returned to organic HAP service, Hercules chooses **not** to monitor connectors that have been opened or had the seal broken. It is realized that nonrepairable connectors can not be counted while complying with this alternative; therefore, in the percent leaking calculations C_{AN} will be set to zero.
12. ***Monitoring results and component summary report during the semi-annual reporting period:***
 - Summary information from the referenced semi-annual reporting period is attached.

SEMI-ANNUAL LDAR REPORT WORKSHEET

Unit: Kymene
Year: 2000

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan - Jun % leakers	Jul - Dec % leakers	Annual % leakers
Total valves monitored	58	2	3	1	1	56	1	60	0	60	0	0	0	0	0
Valves leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Valves not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total pumps monitored	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
Pumps leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumps not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total agitators monitored	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Agitators leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Agitators not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total connectors monitored	332	5	10	10	10	0	17	15	0	322	1	0	0.27248	0.56338	0.41793
Connectors leaking	1	0	0	0	0	0	0	0	0	0	1	0			
Connectors not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0			
Total pressure relief devices (PRD) monitored	1	0	0	0	0	5	0	0	0	1	0	0			
PRDs leaking	0	0	0	0	0	0	0	0	0	0	0	0			
PRDs not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0			

Comments:

HERCULES, INC.
 613 WEST SEVENTH STREET
 HATTIESBURG, MS 39403

Unit Summary Report

DATA SELECTED : ALL DATA

01/10/2001

PAGE NO.

1

Component Count for KYMENE

-->

390

Unit Totals

Total Valves: 60
 TOTAL NORMAL: 55
 NORMAL-NDE: 0
 TOTAL DTM: 5
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total Pumps: 3
 TOTAL NORMAL: 3
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total CONNECT: 324
 TOTAL NORMAL: 277
 NORMAL-NDE: 0
 TOTAL DTM: 47
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total Components: 390
 Total Normal: 338
 Total Difficult: 52
 Total Unsafe: 0

Total Normal Non-Detectables: 0
 Total DTM Non-Detectables: 0
 Total UTM Non-Detectables: 0

Total OTHER COMPONENTS: 1
 (ag.ator) TOTAL NORMAL: 1
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total COMPRESSORS: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total PRD's: 2
 TOTAL NORMAL: 2
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total CLV's: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total on Shutdown: 0

Startup, Shutdown, and Malfunction Plan Checklist - Form A

Date	Startup, Shutdown, Malfunction Plan Properly Followed?		Kymene Scrubber gpm	Was Form B Completed?		Was there a Malfunction?		Action Taken for - Section 6.2, 6.3, 6.4
	Yes	No		Yes	No	Yes	No	
3/4/00	✓		12		✓			Flow adjustment
3/5/00	✓		12		✓			Flow adjustment - fine on pH & RAR open KPI line and run along spout in R-401 leaking water line on scrubber water line. Repaired.
3/13/00	✓				✓			Mix Cooler Leaking Repaired by Tightening.
4/12/00	✓		13.32		✓			Mix Cooler Leaking again - repaired + new gaskets
4/12/00	✓		13.00		✓			
4/17/00	✓		12.00		✓			Mix Cooler Leaking & repaired Open KPI line and
5/12/00	✓		13.45		✓			run along spout in R-401 broken water line on scrubber repaired + new line (green)
9/7/00	✓		15.08		✓			MIX COOLER LEAK ON STARTUP AFTER CLEANING
9/6/00	✓		13.5		✓			
9/16/00	✓		12.48		✓			Spout failure
9/18/00	✗		11.57		✗			Spout failure broken water line on scrubber repaired + new line
9/25/00	✓		13.15		✓			SINCE PUMP REPAIRED LEAK IN SPOOL PIECE ON R-401 ABOVE PUMP (REPAIRED)
10/25/00	✓		12.20		✓			R Blower rupture disc on R-401
11/19/00	✓		10.62		✓			
11/20/00	✓		11.09		✓			Blown Rupture Disc R-401

Adipic Acid System is
not a part of the
SSM Plan
11/11

**Polyether Polyols
Production LDAR
Monitoring**

Polyether Polyols Production LDAR Monitoring

In Accordance with 40 CFR 63, Subpart PPP, Subpart H, and future Permit Conditions, Hercules Incorporated has provided in Attachment B the following required information:

- Report required by 40 CFR 63.182(d)(2);
- Summary report of actual monitoring data; and
- Recordkeeping and reporting of Startup, Shutdown, and Malfunctions per SSM Plan.
 - Form A: SSM Plan Conformance
 - Form B: Nonconformance to SSM Plan (no nonconformance incidents)

No problems or deviations were noted during the weekly visual pump inspections.

During the required 3rd quarter LDAR monitoring at the Polyrad process unit, it was discovered that three (3) valves were incorrectly identified as connectors resulting in the valves not being monitored during the 1st and 2nd quarters of 2000. The valves were identified in the LEAKDAS computer database as connectors; therefore, the components were being monitored on a connector frequency rather than the frequency required for valves. The database has been corrected.

ATTACHMENT B

**Results of Leak Monitoring
Polyrad Process
July 1, 2000 through December 31, 2000**

PERIODIC LEAK MONITORING REPORT

July 1, 2000 through December 31, 2000

Hercules Incorporated
Hattiesburg, Mississippi

Polyrad Process Area (AF-000)

1. Number of affected *valves* in HAP service for which leaks were detected as described in § 63.168(b), the percent leakers, and the total number monitored:

- No affected valves were discovered leaking ($V_L=0$) during the referenced reporting period (>500 ppm);
- $[V_L/V_T] * 100 = 0.00\%$ of total valves monitored were leaking based on a 6-month rolling average; and
- 200 total valves ($V_T=200$) were monitored during the semi-annual reporting period.

1. Number of *valves* for which leaks were not repaired per § 63.168(f), identifying the number of those that are determined non-repairable:

- No affected valves were discovered leaking.

3. Number of affected *pumps* in HAP service for which leaks were detected as described in § 63.163(b), the percent leakers, and the total number monitored:

- No affected pumps were discovered leaking ($P_L=0$) during the referenced reporting period ($>5,000$ ppm or visible leak);
- $[P_L/P_T] * 100 = 0.00\%$ of total pumps monitored were leaking based on a 6-month rolling average; and
- 3 affected pumps monitored 6 times for a total of 18 pumps ($P_T=18$) monitored during the semi-annual reporting period.

4. Number of *pumps* for which leaks were not repaired per § 63.163(c):

- No affected pumps were discovered leaking.

5. Number of affected *connectors* in HAP service for which leaks were detected as described in § 63.174(a), the percent leaking, and the total number monitored:

- No affected connectors were discovered leaking ($C_L=0$) during the referenced reporting period (>500 ppm);
- $[C_L/C_T] * 100 = 0.00\%$ of total connectors were leaking; and

- 728 total connectors ($C_T=728$) were monitored during the semi-annual reporting period.
- 6. Number of *connectors* for which leaks were not repaired per § 63.174(d), identifying the number of those that are determined non-repairable:**
- No affected connectors were discovered leaking.
- 7. Explain any *delay of repairs*:**
- No components were discovered leaking during the semi-annual reporting period.
- 8. Results of all monitoring within semi-annual reporting period to show compliance with § 63.165(a), *pressure relief devices*:**
- No releases during the semi-annual reporting period.
- 9. Notification of a change in *connector monitoring alternatives* as described in §63.174(c)(1):**
- As allowed in §63.174(c)(1)(ii), Hercules Incorporated is changing connector monitoring alternatives. Instead of monitoring opened or broken connectors for leaks within three (3) months of being returned to organic HAP service, Hercules chooses **not** to monitor connectors that have been opened or had the seal broken. It is realized that nonrepairable connectors can not be counted while complying with this alternative; therefore, in the percent leaking calculations C_{AN} will be set to zero.
- 10. *Monitoring results and component summary report* during the semi-annual reporting period:**
- Summary information from the referenced semi-annual reporting period is attached.

SEMI-ANNUAL LDAR REPORT WORKSHEET

Unit: RAD
Year: 2000

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan - Jun % leakers	Jul - Dec % leakers	Annual % leakers
Total valves monitored	0	8	93	0	0	107	0	93	3	104	0	0	0	0	0
Valves leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Valves not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total pumps monitored	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
Pumps leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumps not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total connectors monitored	0	53	0	0	0	0	8	0	0	720	0	0	0	0	0
Connectors leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Connectors not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total pressure relief devices (PRD) monitored	0	18	1	0	0	14	0	0	0	18	0	0	0	0	0
PRDs leaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRDs not repaired within 15 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments:

Component Count for RAD

-->

877

Unit Totals

Total Valves: 105
 TOTAL NORMAL: 95
 NORMAL-NDE: 0
 TOTAL DTM: 9
 DTM-NDE: 0
 TOTAL UTM: 1
 UTM-NDE: 0
 TOTAL NDE: 0

Total Pumps: 3
 TOTAL NORMAL: 3
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total CONNECT: 751
 TOTAL NORMAL: 515
 NORMAL-NDE: 0
 TOTAL DTM: 236
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total Components:
 877
 Total Normal:
 626
 Total Difficult:
 250
 Total Unsafe:
 1

Total Normal Non-Detectables:
 0
 Total DTM Non-Detectables:
 0
 Total UTM Non-Detectables:
 0

Total OTHER COMPONENTS: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total COMPRESSORS: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total PRD's: 18
 TOTAL NORMAL: 13
 NORMAL-NDE: 0
 TOTAL DTM: 5
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total CLV's: 0
 TOTAL NORMAL: 0
 NORMAL-NDE: 0
 TOTAL DTM: 0
 DTM-NDE: 0
 TOTAL UTM: 0
 UTM-NDE: 0
 TOTAL NDE: 0

Total on Shutdown: 0

Startup, Shutdown, and Malfunction Plan Checklist - Form A
--PolyRAD/Surfactant Unit--

Date	Startup, Shutdown, Malfunction Plan Properly Followed?		Was Form B Completed?		Was there a Malfunction?		Action Taken for - Section 6.2, 6.3, 6.4
	Yes	No: See Fm. B	Yes	No	Yes	No	
5/9/00	✓			✓	✓		(see page 185 log book) Shut down Polyrad unit & E.O. scrubber
7/9/00	✓			✓		✓	Started up E.O. scrubber.
7/12/00	✓			✓		✓	Started up the Polyrad unit.
7/16/00	✓			✓		✓	Shut Polyrad unit down.
9/29/00	✓			✓		✓	Started up E.O. scrubber
10/7/00	✓			✓		✓	Shut the Polyrad unit down } Shut the E.O. scrubber down } 10:30 AM

Deviations from Permit Requirements

DEVIATIONS FROM PERMIT REQUIREMENTS

July 1, 2000 through December 31, 2000

**Hercules Incorporated
Hattiesburg, Mississippi**

As required by 5.A.4 of the Title V Operating Permit, deviations from permit requirements must be clearly identified and reported. Deviations from permit or federally regulated requirements are detailed below:

1. During the required 3rd quarter LDAR monitoring at the Polyrad process unit, it was discovered that three (3) valves were incorrectly identified as connectors resulting in the valves not being monitored during the 1st and 2nd quarters of 2000. The valves were identified in the LEAKDAS computer database as connectors; therefore, the components were being monitored on a connector frequency rather than the frequency required for valves. The database has been corrected.

CERTIFIED MAIL – RETURN RECEIPT REQUESTED
CERT. # 7000 0520 0024 6195 1462

May 21, 2001



file
Air
08000001
Forrest County

Chief, Environmental Compliance and Enforcement Division
Office of Pollution Control
Post Office Box 10385
Jackson, Mississippi 39289

Dear Sir:

Re: Agreed Order No. 4179 00

This serves as the SEP Completion Report as required by Section 4.A of the Agreed Order. The report is structured according to the itemized listing in the Agreed Order.

1. *A detailed description of the SEP's, as implemented:*

The Kymene® Agitator SEP involved the installation of a mechanical agitator in product storage tank K-160, for the purpose of odor reduction. Previous mixing in the tank was done by bubbling air into the bottom of the tank, which resulted in low levels of non-regulated emissions, which were also a potential source of odor. Mechanical agitation of the tank has eliminated these emissions. This project was completed on 4/28/01.

The Tempyrox Oven SEP involved the installation of a Tempyrox Oven designed to thermally clean laboratory glassware for the purpose of eliminating the use of cleaning solvents. This oven was installed in our control laboratory washroom. The oven installation replaced a solvent soaking sink and a solvent dishwasher previously used to clean laboratory glassware. This project was completed on 4/28/01.

2. *A description of any problems encountered with the implementation of the SEP's and the solutions thereto:*

No implementation problems were encountered in either of the SEP's.

3. *Itemized costs, documented by copies of purchase orders and receipts or canceled checks or other evidence of expenses:*

The Kymene® Agitator SEP costs are detailed in Attachment A, which includes the following:

- A) Summary of project charges associated with the SEP project.
- B) Project authorization transmittal for project # 1042-068.
- C) Purchase order # 4500380529 for the agitator.
- D) Agitator specification sheet for purchase order # 4500380529.
- E) Storeroom receiving invoice number 242-875415. — 12301
- F) Purchase order # 4500396231 for contractor installation. — 4543
- G) Billing for contractor services.

The Tempyrox Oven SEP costs are detailed in Attachment B, which includes the following.

- A) Summary of project charges associated with the SEP project.
- B) Project authorization transmittal for project # 1042-072.
- C) Purchase order # 4500425789 for the oven.
- D) Tempyrox packing slip.
- E) Storeroom receiving invoice number 775-979212.

4. *Certification, signed by a responsible corporate official or Hercules' legal counsel, that Hercules has fully implemented the SEP's pursuant to the provisions of this Agreed Order; and*

Hercules has fully implemented the Kymene® Agitator SEP.

Hercules has fully implemented the Tempyrox Oven SEP.

A signed certification statement is enclosed as Attachment C.

5. *A description of the environmental and public health benefits resulting from the implementation of the SEP's.*

The Kymene® Agitator SEP resulted in the elimination of odors and non-regulated emissions.

SEP Completion Report
May 21, 2001
Page 3

The Tempyrox Oven SEP resulted in the elimination of approximately 2,000 lbs of conventional solvents being used in a solvent soaking sink and a solvent dishwasher. The major solvent reduction was air emissions and odors. Other reduction resulted from the elimination of some spent solvent disposal.

The expenditures incurred for the implementation of the SEP's are \$25,580 plus \$17,820, totaling \$43,400. As per Section 3.A.2 of the Agreed Order, the remaining balance is due on or before the SEP's completion date.

Please find the enclosed check for this balance, \$13,800.

If you require additional information, please call Charles Jordan at 601-584-3360.

Very truly yours,

HERCULES INCORPORATED



Walter D. Langhans
Plant Manager

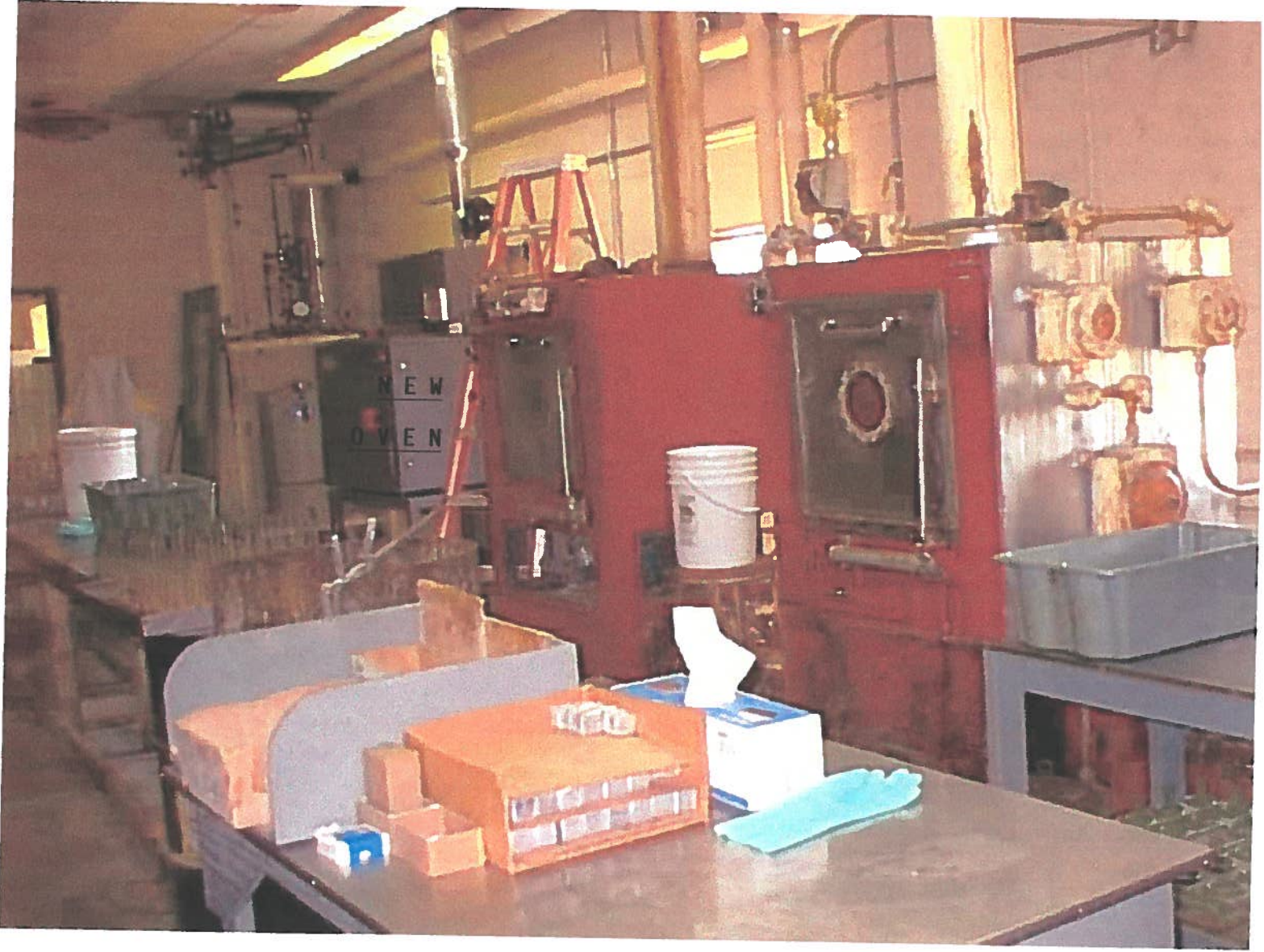
WDL/vrf

Enclosure:

cc: G. M. Trovei, Hercules Plaza 7255SW
R. L. Williams, Hercules Plaza 8325SE



K.160
M.929
KUMBNE







ATTACHMENT A

ACCOUNT #	PROJECT 1042-068	APPROVED \$	PRIOR \$	KYMENE 557H STORAGE TANK AGITATOR												2001 PROJECT CHARGES					10-MAY-2001 TO DATE \$		
				JAN \$	FEB \$	MAR \$	APR \$	MAY \$	JUN \$	JUL \$	AUG \$	SEP \$	OCT \$	NOV \$	DEC \$	YTD \$							
2093-7	MATERIAL	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,954	1,954	
	LABOR	480	0	0	0	1,954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACCOUNT TOTAL	1,280	0	0	0	1,954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9114-5	MATERIAL	18,770	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,954	1,954
	LABOR	790	0	0	0	17,878	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACCOUNT TOTAL	19,560	0	0	17,878	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,878	17,878
9114-7	MATERIAL	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LABOR	1,440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACCOUNT TOTAL	2,040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9939-0	ESCALATN	610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9982-0	570	2,970	0	0	0	0	2,157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9985-0	CONTNGCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,896
9992-0	2,280	1,690	0	0	0	0	2,211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PROJECT TOTAL	31,000	0	0	17,878	3,334	4,368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,852	25,580
			0	0	17,878.07	3,333.7	4,368.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,579.89	25,579.89

PROJECT TRANSMITTAL

January 22, 2001

**TO: W. D. Langhans
Hercules Incorporated
Hattiesburg, MS****FROM: P.A. Reinbold
Controllers**

Title: Kymene 557H Storage Tank Agitator	Project No.: 1042-068
Plant: Hattiesburg	Date Authorized: 01/03/01
BUS/CTR: PPD	Amount: \$31,000.00

SEE SUMMARY ESTIMATE FOR LISTING OF ACCOUNTS**CHANGE OF BUSINESS AREA FROM RESINS TO PAPER****C.C.**

D. H. Moore	Hattiesburg
* L. Tanner	Engineering - 11
* W.J. Kryspin	Engineering - 12
N. A. Holt	Engineering - 11
D. Clauss	Engineering - 11
D. R. Way	Engineering - 11
J. J. Fleming	Safety - 7
D. R. Peirson	Tax Division - 9
J. W. Ciach	Tax & Fixed Assets - 8
Fixed Assets	Controllers - 8



Hercules Incorporated Purchase Order

2/7

DELIVERY DATE 31JAN2001	ORDER DATE 12DEC2000	PURCHASE ORDER NUMBER 4500380529	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
----------------------------	-------------------------	-------------------------------------	----------	-----------------	-----------------------------

VENDOR SHIP TO

Attention: JEFF GLASS
R S ENGERT & COMPANY
2009 OLIVE ROAD
PENSACOLA FL 32514

Phone: 800-345-1163

MAIL TWO COPIES OF YOUR INVOICE TO:
HERCULES INCORPORATED
HATTIESBURG PLANT
613 WEST 7TH STREET
HATTIESBURG, MS 39401

X
ATTN: ACCTS. PAYABLE

HATTIESBURG PLANT
HERCULES INCORPORATED
613 WEST 7TH STREET
HATTIESBURG MS 39401

VIA

TERMS Net 45 Days From Invoice Date

Must Mark Material Number on All Packages.

Mark All Paperwork with Purchase Order Number.

INCOTERMS **FOB** UPS / PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
------	-------------------	----------	-------	------	--------

PLEASE ORDER AS PER THE ABOVE PURCHASE ORDER NUMBER. FOR CHANGES OR QUESTIONS, CALL 601-584-3368 (VOICE MAIL) OR FAX 601-584-3206
ATTN: SHELIA JOHNSON / PLEASE RETURN FAX THE CONFIRMATION PAGE.
*** NOTE ***

THIS PURCHASE ORDER NUMBER IS "REQUIRED" FOR DELIVERY, INVOICING, AND INQUIRY.

10 KYMENE STORAGE TANK AGITATOR

Material No.	1 EA	11,850.00 / 1 EA	11,850.00
--------------	------	------------------	-----------

REF: Lightnin quotation #3-B-00-0084-L-R2, dated 12/8/2000, signed by Debi Rowland for Jeffrey J. Glass (faxed to Hercules on 12/8/2000).

Lightnin mixer model 208-RSE-20 as generally illustrated in drawing L-16386 and as dimensioned in drawing DS-SE-111. Mixer will be provided with a 10"-150# mounting flange of steel faced with 316SS. The unit will be provided with a shaft that is 2.5" in diameter fabricated of 316SS rotating at 280 rpm and carrying a single 31" diameter Lightnin A312 impeller (drawing L-17244). The shaft will be sealed with a standard packed stuffing box as shown in drawing

CHANGE TO
NEW CHARGE CODE MUST BE!
G/L: 6711700000
MRS: 1042-068F9114-30200-5000

✓ DONE
1-29-01
(As Item 20)

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: DOUG LOWERY

ISSUED BY: *Shelia Johnson*

BUYER: Shelia Johnson
601-584-3368

AUTHORIZED BY:

DELIVERY DATE 31JAN2001	ORDER DATE 12DEC2000	PURCHASE ORDER NUMBER 4500380529	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
----------------------------	-------------------------	-------------------------------------	----------	-----------------	-----------------------------

VENDOR SHIP TO

Attention: JEFF GLASS R S ENGERT & COMPANY 2009 OLIVE ROAD PENSACOLA FL 32514 Phone: 800-345-1163	MAIL TWO COPIES OF YOUR INVOICE TO: HERCULES INCORPORATED HATTIESBURG PLANT 613 WEST 7TH STREET HATTIESBURG, MS 39401 X ATTN: ACCTS. PAYABLE
---	--

HATTIESBURG PLANT HERCULES INCORPORATED 613 WEST 7TH STREET HATTIESBURG MS 39401	VIA TERMS Net 45 Days From Invoice Date
---	---

Must Mark Material Number on All Packages. Mark All Paperwork with Purchase Order Number.

INCOTERMS **FOB** UPS / PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
	L-16388. The mixer will be driven by a 20 hp explosion proof (Class I, Group C) motor suitable for a 230/460 volt, 60 Hertz, 3 phase circuit. The mixer will be provided with pipe legs for outboard support. Vendor to furnish within seven (7) days after receipt of this order, three copies each of the following information pertinent to this equipment to Hercules Incorporated, 613 West 7th Street, Hattiesburg, MS 39401, Attn: Doug Lowery, Senior Staff Engineer. * Certified dimension sheets * Lubrication recommendations * Wiring diagrams * Parts list, including manufacturer's identification number, bearings, oil seals, "O" rings, and other individual parts (for interchangeability and maintenance purposes) * List of recommended spare parts, installation, operating, and maintenance instructions Identify prints by title, size, capacity, etc. of equipment, Hercules purchase order number, item number, and equipment number.				

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: DOUG LOWERY
ISSUED BY:
BUYER: Shelia Johnson 601-584-3368
AUTHORIZED BY:

LIGHTNIN

P.O. Box 1370 155 Mt. Read Blvd. * Rochester, NY 14603

Postal Address:		Cust ID: 146979		Delivery Address:	
HERCULES INC P O BOX 1937 W 7TH STREET HATTIESBURG, MS 39403				HERCULES INC ATTN: DOUG LAWERY 613 WEST 7TH STREET HATTIESBURG, MS 39401	
Purchase Order #: 4500380529			Date 12-19-2000		
TAG:					
LIGHTNIN Sales Order Number: 763191			LIGHTNIN Project Number: 239883		
QTY 1	Model 208RSES20	Unit Size 208		Ratio .00	
	Serial #: R0123988301	Unit of Measure English			
MOTOR OR DRIVE	Desc. /Hi.Eff./Sev.Dty. HP/Frame/RPM 20 HP/256T/1800 Supplied By LIGHTNIN	Volt/Hz/Ph /60/ Enclosure/SF FCXP/ Mounted By LIGHTNIN			
WETTED PARTS	Shaft Stn. Steel 316 Impeller Stn. Steel 316				
IN TANK SHAFT	Diameter 2.5 in Length From Mtg Base 26 in				
I M P	Impeller Diameter 31.00 in	Type A312	Blades 3	Hub Type	
	Nominal Speed 280.00 RPM Off Bottom				
SHAFT SEAL	Flg/Rating 10"/ANSI 150# Pressure/Temp. Seal Type Type 2 w/Shutoff/Comb50				
OPT EQUIP	Lubricator Spring Outboard Support Pipe Legs				
TANK DATA	Shape Cylindrical Dia/Size 132 in	Max. Opening 24.0000			
	Mixer Mtg Vertical Off Center	Units/Tank 1.0000			
	Top/Dim. ASME Dish/0 in	Straight Side			
	Bot/Dim. Flat - Closed/0 in	Overall Height 300 in			
	Coverplate By	Wall Insert By			
	Coverplate Size/Angle 0/0/Left	Wall Thickness 0.0000			

CONSOLIDATED FREIGHTWAYS

CONSIGNEE COPY

INVOICE NUMBER REFER TO THIS NUMBER

4131

DATE 1/19/01

ORIGIN

CFWY CF REVENUE

ADVANCE

DESTINATION HRM

242-875415

CONSIGNEE

HERCULES INC
ATTN DOUG LAWERY
613 W 7TH ST
HATTIESBURG, MS 39401

CFY
AR#

SHIPPER'S NUMBER
SN# F7631912958
PO# 4500380529

INVOICE NUMBER B.C.
242-875415

ROUTE (CARRIERS, PRO DATE & NO., SUNDAYS)

Handwritten notes: 58-1, 1

SHIPPER
LIGHTNIN MIXTURES
135 MT READ BLVD
ROCHESTER, NY 14611

BILL TO



# PCS	HM	DESCRIPTION OF ARTICLES AND MARKS	WEIGHT (LBS)	RATE	TOTAL CHARGES
1		PARTS 133390 S3 CL65	1480		
1		FUEL SURCHARGE 4.00% JFU-8	1480		
		TOTAL			PPD
OSD CONTACT 716-436-5550 JOHN HARTER/SHIPPING					
100% SATISFACTION IS OUR GOAL! CALL US FIRST AT (601) 268-2727					

SHRINK WRAP INTACT?
 YES NO

INSIDE DEL CONSTRUCTION SITE REDEL SORT # PCS

LIFT GATE DETENTION TIME: START _____ END _____

DUNS # 04-411-0690

LEAVE THIS COPY WITH CONSIGNEE

Handwritten signature: *Samir B...*

Handwritten circled number: 12301

CONSOLIDATED FREIGHTWAYS CORP. OF DEL. DBA
CONSOLIDATED FREIGHTWAYS
P.O. Box 4438
Portland, Oregon 97208-4438

Handwritten number: 12301
Logo with number 8

VENDOR SITE

DELIVERY DATE	ORDER DATE 18JAN2001	PURCHASE ORDER NUMBER 4500396231	ALT. NO. 002	ALTERATION DATE 23 FEB 2001	OUTLINE AGREEMENT REFERENCE
---------------	-------------------------	-------------------------------------	-----------------	--------------------------------	-----------------------------

Attention: BEN LIGAMERI
INDUSTRIAL SERVICES OF MOBILE
5975 RANGELINE ROAD
THEODORE AL 36582

Phone: 334 443 7033

MAIL TWO COPIES OF YOUR INVOICE TO:

HERCULES INCORPORATED
HATTIESBURG PLANT
613 WEST 7TH STREET
HATTIESBURG, MS 39401

X
ATTN: ACCTS. PAYABLE

HATTIESBURG PLANT
HERCULES INCORPORATED
613 WEST 7TH STREET
HATTIESBURG MS 39401

VIA

TERMS Net 45 days from receipt of invoice

Must Mark Material Number on All Packages.

Mark All Paperwork with Purchase Order Number.

INCOTERMS ON SITE

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
	ALT 002: ADD LINE ITEM 30 / ADDITIONAL WORK				
	ALT. 001: CHANGE TO PROJECT CHARGE CODE; LINE 20 DELETE LINE 20 / TEMP. CHARGE CODE				
20	AGITATOR NOZZLE INSTALLATION				
	Material No.	4,160		1.00 / 1 PC	4,160.00 ✓
	Delivery Date: 29JAN2001				
30	ADDITIONAL T&M WORK TO INSTALL AGITATOR				
	Material No.	383.49		1.00 / 1 PC	383.49 ✓
	Delivery Date: 23FEB2001				
	Additional time and material work to install new agitator.				

REC'D 2-23-01
POC # 50754480
JH

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: DOUG LOWERY

ISSUED BY:

BUYER: Shelia Johnson
601-584-3368

SHELIA C. JOHNSON

Shelia C. Johnson

AUTHORIZED BY:



Safety ♦ Quality ♦ Performance

5975 Rangeline Road ☎ Theodore, Alabama 36582
Telephone: 334-443-7033 ☎ Fax: 334-443-7454

Industrial Construction & Maintenance Service

INVOICE N^o 15368

BILLING NO. 01

DATE 2/22/01

JOB NO. 379

P.O. NO. 4500396231

Hercules Incorporated

Hattiesburg Plant

613 West Seventh Street

Hattiesburg, MS 39401

ATTENTION: ACCOUNTS PAYABLE

*COPY
LONG COALERY*

TO INVOICE YOU FOR THE FOLLOWING Completion of work performed on the above

P. O. as per attached.

G

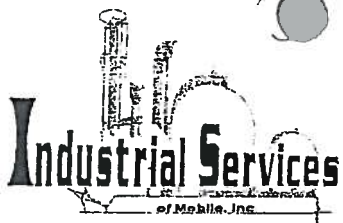
TOTAL NET AMOUNT DUE \$ 4,543.49

TERMS: NET 10 DAYS

BY: Office Manager

INDUSTRIAL SERVICES REPRESENTATIVE

TITLE: *[Signature]*



Safety ♦ Quality ♦ Performance

5975 Rangeline Road • Theodore, Alabama 36582
Telephone: 334-443-7033 ☎ Fax: 334-443-7454

Industrial Construction & Maintenance Service

February 20, 2001

Hercules Incorporated
Hattiesburg Plant
613 West Seventh Street
Hattiesburg, MS 39401

Annt: Account Payable

RE: Hercules P. O. No. - 4500396231 Industrial Services of Mobile, Inc. - Job No. 379

ISOM PHASE 700

Furnished Labor, Equipment, Materials and Supplies for Installation of 10" 150 # Flanged Nozzle with Backing Plate and Gussets for Agitator in Kymene Storage Tank no. T-160

LUMP SUM AMOUNT \$ 4,160.00

ISOM PHASE 702 (Authorized Additional Work)

Furnished Labor and Material to Install New Agitator per T & M Rates on File
Labor/Equipment

See Attached \$ 375.50

Material

Dixie Supply

Drop-in Anchors \$ 7.26

Mark-Up @ 10% .73

\$ 383.49

\$ 383.49

TOTAL AMOUNT DUE THIS INVOICE

\$ 4,543.49

PROJECT TRANSMITTAL

March 20, 2001

**TO: W. D. Langhans
Hercules Incorporated
Hattiesburg, MS****FROM: P.A. Reinbold
Controllers**

Title: Tempyrox Oven	Project No.: 1042-072
Plant: Hattiesburg	Date Authorized: 02/06/01
BUS/CTR: PPD	Amount: \$30,300.00

SEE SUMMARY ESTIMATE FOR LISTING OF ACCOUNTS**CHANGE OF BUSINESS AREA FROM RESINS TO PAPER****C.C.**

D. H. Moore	Hattiesburg
* L. Tanner	Engineering - 11
* W.J. Kryspin	Engineering - 12
N. A. Holt	Engineering - 11
D. Clauss	Engineering - 11
D. R. Way	Engineering - 11
J. J. Fleming	Safety - 7
D. R. Peirson	Tax Division - 9
J. W. Ciach	Tax & Fixed Assets - 8
Fixed Assets	Controllers - 8

DELIVERY DATE 09APR2001	ORDER DATE 21MAR2001	PURCHASE ORDER NUMBER 4500425789	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
----------------------------	-------------------------	-------------------------------------	----------	-----------------	-----------------------------

VENDOR SHIP TO	Attention: SALES TEMPYROX COMPANY INC 11055 DENNIS ROAD 4 DALLAS TX 75244-3650 Phone: 800 584 8010	MAIL TWO COPIES OF YOUR INVOICE TO: HERCULES INCORPORATED HATTIESBURG PLANT 613 WEST 7TH STREET HATTIESBURG, MS 39401 X ATTN: ACCTS. PAYABLE
	HATTIESBURG PLANT HERCULES INCORPORATED 613 WEST 7TH STREET HATTIESBURG MS 39401	VIA TERMS Net 45 days from receipt of invoice

Must Mark Material Number on All Packages.

Mark All Paperwork with Purchase Order Number.

INCOTERMS	PPD PREPAID & ADD
-----------	-------------------

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
PLEASE ORDER AS PER THE ABOVE PURCHASE ORDER NUMBER. FOR CHANGES OR QUESTIONS, CALL 601-584-3368 (VOICE MAIL) OR FAX 601-584-3206 ATTN: SHELIA JOHNSON / PLEASE RETURN FAX THE CONFIRMATION PAGE. *** NOTE *** THIS PURCHASE ORDER NUMBER IS "REQUIRED" FOR DELIVERY, INVOICING, AND INQUIRY.					
10	Model: 5AB Pyro-clean Tempyrox Oven Material No.	1	13,475.00 /	1 PC	13,475.00
	With Electri-Cat Oxidizer				
20	Nitrogen Purge for 5AB Material No.	1	500.00 /	1 PC	500.00
30	Stand With Castors for 5AB Material No.	1	625.00 /	1 PC	625.00

4/2/01
JS
PO - 50799255

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY:	DAN MOORE	
ISSUED BY:		
BUYER:	Shelia Johnson 601-584-3368	SHELIA C. JOHNSON <i>Shelia C. Johnson</i>
AUTHORIZED BY:		



Hercules Incorporated Purchase Order

DELIVERY DATE 09APR2001	ORDER DATE 21MAR2001	PURCHASE ORDER NUMBER 4500425789	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
----------------------------	-------------------------	-------------------------------------	----------	-----------------	-----------------------------

VENDOR SHIP TO

Attention: SALES
 TEMPYROX COMPANY INC
 11055 DENNIS ROAD 4
 DALLAS TX 75244-3650

Phone: 800 584 8010

MAIL TWO COPIES OF YOUR INVOICE TO:

HERCULES INCORPORATED
 HATTIESBURG PLANT
 613 WEST 7TH STREET
 HATTIESBURG, MS 39401

X
 ATTN: ACCTS. PAYABLE

HATTIESBURG PLANT
 HERCULES INCORPORATED
 613 WEST 7TH STREET
 HATTIESBURG MS 39401

VIA

TERMS Net 45 days from receipt of invoice

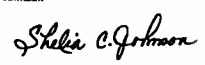
Must Mark Material Number on All Packages.

Mark All Paperwork with Purchase Order Number.

INCOTERMS PPD PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
40	Freight Material No.	1 PC	194.00 / 1 PC		194.00
Total Net Value Excl. Tax USD					14,794.00

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: DAN MOORE	
ISSUED BY:	
BUYER: Shelia Johnson 601-584-3368	<small>SHELIA C. JOHNSON</small> 
AUTHORIZED BY:	

CONSOLIDATED FREIGHTWAYS

CFWY

CONSIGNEE COPY

INVOICE NUMBER REFER TO THIS NUMBER

NUMBER 5-0144	DATE 3/30/01	ORIGIN DLS	CF REVENUE	ADVANCE	COND	DESTINATION HEM	INVOICE NUMBER 775-979212
------------------	-----------------	---------------	------------	---------	------	--------------------	------------------------------

CONSIGNEE

HERCULES INC
HATTIESBURG PLANT
613 WEST 7TH ST
HATTIESBURG, MS 39401

CFY
AR#

SHIPPER'S NUMBER
SN# NONE
PO# 4500425789

INVOICE NUMBER : E :
775-979212

ROUTE (CARRIERS, PRO DATE & NO., JUNCTIONS)

SHIPPER

TEMPYROX CO INC

BILL TO

11055 DENNIS RD #4
DALLAS, TX 75229



# PCS.	HM	DESCRIPTION OF ARTICLES AND MARKS	WEIGHT (LBS)	RATE	TOTAL CHARGES
1		QUEENS 26760 S1 CL 85	550		
1		STANDS 178690 SUB 8 CL85	150		
		FUEL SURCHARGE 3.00% JCA-33			
2		TOTAL	700		PPD
		MK 2C			
		100% SATISFACTION IS OUR GOAL! CALL US FIRST AT (601) 268-2727			

SHRINK WRAP INTACT? YES NO INSIDE DEL CONSTRUCTION SITE REDEL SORT # PCS LIFT GATE DETENTION TIME: START _____ END _____

DUNS # 04-11-0890

LEAVE THIS COPY WITH CONSIGNEE

James Boone 43 2001 *Ran by Ken G* 4301

CONSOLIDATED FREIGHTWAYS CORP. OF DEL DBA
CONSOLIDATED FREIGHTWAYS
P.O. Box 4488
Portland, Oregon 97208-4488



ATTACTMENT C
Agreed Order No 4179 00
Item 4.A.4: Certification by Responsible Official

As a Responsible Official for Hercules Incorporated, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the SEP completion report are true, accurate, and complete, and that the SEP's have been fully implemented as per the provisions of the Agreed Order.

Responsible Official Signature:



Walter D. Langhans
Plant Manager
Hercules Incorporated
Hattiesburg, Ms. Plant

CM-RRR: 7000 0520 0024 6195 1592

HERCULES

Hercules Incorporated
613 West 7th Street
Hattiesburg MS 39401
Phone: 601-545-3450
Fax: 601-584-3226

RECEIVED
JUN 13 2001
Dept. of Environmental Quality
Office of Pollution Control

Fax

To: Mohammed Yassin From: C. Jordan

Fax: 601 961 5674 Date: 6/11/01

Phone : _____ Pages: _____

Re: _____

Urgent For Review Please Comment Please Reply

•Comments: _____

6/1/01 MY/proj.chgs

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
- 2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mohammed Yassin
Mississippi DEQ
P. O. Box 10385
Jackson, MS 39289-0385

4a. Article Number

7000 0520 0024 6195 1561

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

JUN 01 2001

5. Received By: (Print Name)

RAY ROBINSON

6. Signature: (Addressee or Agent)

X [Signature]

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

ATTACHMENT B

PROJECT 1042- 072	ACCOUNT #	APPROVED \$	PRIOR \$	2001 PROJECT CHARGES												YTD \$	10-MAY-2001 TO DATE \$												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC														
	8100-5	14,700	0	0	0	0	15,671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,671	15,671	0		
		700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ACCOUNT TOTAL	15,400	0	0	0	0	15,671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,671	15,671	0	
	8100-7	3,000	0	0	0	0	352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	352	352	0	
		1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACCOUNT TOTAL	4,000	0	0	0	0	352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	352	352	0	
	9939-0	1,240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		210	0	0	0	0	1,798	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,798	1,798	0	
	9985-0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2,450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9992-0	30,300	0	0	0	0	17,820	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,820	17,820	0	
	PROJECT TOTAL	30,300	0	0	0	0	17,820.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,820.17	17,820.17	0	

Invoice

TEMPYROX COMPANY, INC.

11055 DENNIS RD STE. 4
DALLAS, TX 75229-3650
TEL (972) 484-8010
FAX (972) 484-8099
FID # 75-2417515

DATE

INVOICE #

3/30/2001

1548

BILL TO:

Hercules Incorporated
Hattiesburg Plant
613 West 7th Street
Hattiesburg, MS 39401
Attn: Accts Payable

SHIP TO:

Hattiesburg Plant
Hercules, Inc.
613 West 7th Street
Hattiesburg, MS 39401

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
4500425789	NET 45	BES	3/30/2001	Consolidated	DALLAS, TX	

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
1	MODEL 5-AB	PYRO-CLEAN OVEN, MODEL 5-AB S.N.: 9624 with "Electri-Cat" Oxidizer	13,475.00	13,475.00
1	NITROGEN PURG	NITROGEN PURGE OPTION	500.00	500.00
1	FLOORSTAND	FLOOR STAND, 5-AB with Casters	625.00	625.00
1	FREIGHT	PREPAID FREIGHT CHARGES	194.00	194.00

5100272813
04/05/01

TOTAL

\$14,794.00

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
TOTAL				17,820.17			
TOTAL				17,820.17			
1042-072	1042-072 Temprox Oven			17,820.17			
1042-072F010				16,022.48			
1042-072F010-30200				16,022.48			
1042-072F010-30200-5000				15,670.52			
	04/28/2001		1501299912	77.00			
	04/28/2001		1501299916	96.25			
	04/28/2001		1501303467	96.25			
	04/28/2001		1501303469	38.50			
	04/28/2001		1501303472	154.00			
	04/28/2001		1501303473	38.50			
	04/28/2001		1600064797	18.87-			
	04/28/2001		1600064797	0.27-			
	04/05/2001	510072813	804235629	0.01-	4500425789	Freight	TEMPROX COMPANY INC
	04/04/2001	5000200444	804235665	13,677.13	4500425789	Model: 5NB Pyro-clad	TEMPROX COMPANY INC
	04/04/2001	5000200444	804235665	507.50	4500425789	Nitrogen Rungs for	TEMPROX COMPANY INC
	04/04/2001	5000200444	804235665	634.38	4500425789	Stand With Casters	TEMPROX COMPANY INC
	04/28/2001		1501300236	96.25			
	04/28/2001		1501300232	77.00			
	04/04/2001	5000200444	804235665	196.91	4500425789	Freight	TEMPROX COMPANY INC
1042-072F010-30200-7000				351.96			
	04/28/2001		1600064797	13.79-			
	04/28/2001		1501300138	115.50			
	04/28/2001		1501300137	96.25			
	04/28/2001		1501300135	154.00			
1042-072H				1,797.69			
1042-072B9982				1,797.69			
1042-072B9982				1,797.69			
	04/28/2001		1600064797	47.69			
	04/27/2001		1501286532	1,400.00			
	04/27/2001		1501286530	350.00			

ATTACHMENT A

PROJECT 1042- 068		KYMENE 557H STORAGE TANK AGITATOR												2001 PROJECT CHARGES												10-MAY-2001	
ACCOUNT #	APPROVED \$	PRIOR \$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD	TO DATE											
2093-7 MATERIAL	800	0	0	0	0	0	0	0	0	0	0	0	0	0	1,954	1,954											
LABOR	480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
ACCOUNT TOTAL	1,280	0	0	0	1,954	0	0	0	0	0	0	0	0	0	1,954	1,954											
9114-5 MATERIAL	18,770	0	0	17,878	0	0	0	0	0	0	0	0	0	0	17,878	17,878											
LABOR	790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
ACCOUNT TOTAL	19,560	0	0	17,878	0	0	0	0	0	0	0	0	0	0	17,878	17,878											
9114-7 MATERIAL	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
LABOR	1,440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
ACCOUNT TOTAL	2,040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
9939-0 ESCALATN	610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
9982-0 570	2,970	0	0	0	739	2,157	0	0	0	0	0	0	0	0	2,896	2,896											
9985-0 CONTNGCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
9992-0 2,280	1,690	0	0	0	691	2,211	0	0	0	0	0	0	0	0	2,852	2,852											
PROJECT TOTAL	31,000	0	0	17,878	3,334	4,368	0	0	0	0	0	0	0	0	25,580	25,580											
		0	0	17,878.07	3,333.7	4,368.12	0	0	0	0	0	0	0	0	25,579.89	25,579.89											

A1

100279

LIGHTNING

Invoice

Date: 01-19-01 Page: 1
Invoice #: S01/21001368

LIGHTNING Order No.:
763191
Customer Copy

PHONE: (716) 436-5550 FAX: (716) 436-5589
Please Remit To:
PO Box 277886
Atlanta, GA 30384 US

Postal Address:	Cust ID: 146979	Delivery Address:
HERCULES INC P O BOX 1937 W 7TH STREET HATTIESBURG, MS 39403		HERCULES INC ATTN: DOUG LAWERY 613 WEST 7TH STREET HATTIESBURG, MS 39401

Customer PO No.: 4500380529
Terms of Payment: Net 30 Days
Due Date: 02-18-2001

Freight Terms : Prepay & Add to Invoice
Forwarding Agent :

Pos	Ship Date	Price Each	Total (USD)
10 2 Serial	01-18-01	11,850.00	11,850.00
20	01-18-01	.00	880.75

TAX Example

$$11,850^{00} \times 1.5\% \text{ TAX}$$

$$11,850^{00} \times 1.015 = 12,027^{75}$$

Bottom of Page 9

*0258201
02/07/01*

Go
11850

(USD) Total Due
12730.75

ACCEPTANCE :

OF THIS DOCUMENT.

T/T: LIG

128
101-2 DALLAS, TX 75202 US

THANK Y

with your payment: S01/21001368



Project / Element	Project Description	FI Doc #	CD Doc #	Amount	P.O. #	Document Text	Vendor Name
TOTAL - - CcCode: 0106				25,579.89			
TOTAL - - CcCode: 0106 Plant: 1042				25,579.89			
1042-068F	1042-068 Kylene 557H Storage Tank Agitant			22,697.25			
1042-068F2093				2,123.54			
1042-068F2093-310200				2,123.54			
1042-068F2093-310200-7000				2,123.54			
				4.31-			
	04/28/2001		100065109	4.31		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065111	4.31		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065113	4.31-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065115	4.31		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065117	4.31-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065119	4.31		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100064831	4.31-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065111	4.31		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065113	4.49-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065115	4.49		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065117	4.49		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100064831	4.49-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065109	4.49		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065111	4.49		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065113	4.31		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065115	1.96		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065117	1.87		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065109	1.87-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065111	1.87		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065113	1.87-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065115	1.87		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065117	1.87-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065109	1.87		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065111	1.96		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065113	1.96-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065115	1.96		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065117	1.96-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100064831	1.96		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063074	0.01-		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063076	0.01		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063078	0.01-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100063080	0.01		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065107	3.65		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065109	3.65-		O/R/E/R/O	O/R/E/R/O
	04/28/2001		100065111	3.65		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063076	0.24		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063078	0.24-		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063080	0.24		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063500	0.01		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063502	0.01-		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063504	0.01		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063070	0.01-		O/R/E/R/O	O/R/E/R/O
	03/28/2001		100063072	0.01		O/R/E/R/O	O/R/E/R/O

Harcules Incorporated
Accounting Documents for Projects
Readings Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
	04/28/2001		100065113	6.84-		OVEREND	OVEREND
	04/28/2001		100065115	6.84		OVEREND	OVEREND
	04/28/2001		100065117	6.84		OVEREND	OVEREND
	04/28/2001		100065119	6.84		OVEREND	OVEREND
	04/28/2001		100064831	6.84		OVEREND	OVEREND
	04/28/2001		100064833	6.84		OVEREND	OVEREND
	04/28/2001		100065107	4.50		OVEREND	OVEREND
	04/28/2001		100065109	4.50-		OVEREND	OVEREND
	04/28/2001		100065115	3.65		OVEREND	OVEREND
	04/28/2001		100065117	3.65-		OVEREND	OVEREND
	04/28/2001		100065119	3.65		OVEREND	OVEREND
	04/28/2001		100064831	3.65-		OVEREND	OVEREND
	04/28/2001		100064833	3.65		OVEREND	OVEREND
	04/28/2001		100065107	6.84		OVEREND	OVEREND
	04/28/2001		100065109	6.84-		OVEREND	OVEREND
	04/28/2001		100065111	6.84		OVEREND	OVEREND
	04/28/2001		100064831	1.87-		OVEREND	OVEREND
	04/28/2001		100065113	0.50-		OVEREND	OVEREND
	04/28/2001		100065115	0.50		OVEREND	OVEREND
	04/28/2001		100065117	0.50-		OVEREND	OVEREND
	04/28/2001		100065119	0.50		OVEREND	OVEREND
	04/28/2001		100064831	0.50-		OVEREND	OVEREND
	04/28/2001		100064833	0.50		OVEREND	OVEREND
	04/28/2001		100065107	0.38		OVEREND	OVEREND
	04/28/2001		100065109	0.38-		OVEREND	OVEREND
	04/28/2001		100065115	8.06		OVEREND	OVEREND
	04/28/2001		100065117	8.06-		OVEREND	OVEREND
	04/28/2001		100065119	8.06		OVEREND	OVEREND
	04/28/2001		100064831	8.06-		OVEREND	OVEREND
	04/28/2001		100064833	8.06		OVEREND	OVEREND
	04/28/2001		100065107	8.06		OVEREND	OVEREND
	04/28/2001		100065109	0.50		OVEREND	OVEREND
	04/28/2001		100065111	0.50-		OVEREND	OVEREND
	04/28/2001		100065113	0.50		OVEREND	OVEREND
	04/28/2001		100065115	0.01-		OVEREND	OVEREND
	04/28/2001		100065117	0.01		OVEREND	OVEREND
	04/28/2001		100065119	0.01-		OVEREND	OVEREND
	04/28/2001		100064831	0.01-		OVEREND	OVEREND
	04/28/2001		100064833	0.01		OVEREND	OVEREND
	04/28/2001		100065111	0.01		OVEREND	OVEREND
	04/28/2001		100065113	0.38		OVEREND	OVEREND
	04/28/2001		100065115	0.38		OVEREND	OVEREND
	04/28/2001		100065117	0.38-		OVEREND	OVEREND
	04/28/2001		100065119	0.38		OVEREND	OVEREND
	04/28/2001		100064831	0.38-		OVEREND	OVEREND
	04/28/2001		100064833	0.38		OVEREND	OVEREND
	04/28/2001		100065107	0.01		OVEREND	OVEREND
	04/28/2001		100064831	2.89-		OVEREND	OVEREND
	04/28/2001		100064833	2.89		OVEREND	OVEREND
	04/28/2001		100065107	3.60		OVEREND	OVEREND
	04/28/2001		100065109	3.60-		OVEREND	OVEREND
	04/28/2001		100065111	3.59		OVEREND	OVEREND
	04/28/2001		100065113	3.59-		OVEREND	OVEREND
	04/28/2001		100065115	3.59		OVEREND	OVEREND

Hercules Incorporated
Accounting Documents for Projects
Readings Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1042

Project / Element	Project Description	Fr Doc #	CD Doc #	Amount	P.O. #	Document Text	Voucher Name
04/28/2001			1000065117	3.59-		04/28/2001	04/28/2001
04/28/2001			1000064833	1.87		04/28/2001	04/28/2001
04/28/2001			1000065107	2.89		04/28/2001	04/28/2001
04/28/2001			1000065109	2.89-		04/28/2001	04/28/2001
04/28/2001			1000065111	2.89		04/28/2001	04/28/2001
04/28/2001			1000065113	2.89-		04/28/2001	04/28/2001
04/28/2001			1000065115	2.89		04/28/2001	04/28/2001
04/28/2001			1000065117	2.89-		04/28/2001	04/28/2001
04/28/2001			1000065119	2.89		04/28/2001	04/28/2001
04/28/2001			1000065117	18.57-		04/28/2001	04/28/2001
04/28/2001			1000065119	18.57		04/28/2001	04/28/2001
04/28/2001			1000064833	18.57-		04/28/2001	04/28/2001
04/28/2001			1000064833	8.06		04/28/2001	04/28/2001
04/28/2001			1000065107	8.06-		04/28/2001	04/28/2001
04/28/2001			1000065109	8.06-		04/28/2001	04/28/2001
04/28/2001			1000065111	8.06		04/28/2001	04/28/2001
04/28/2001			1000065113	8.06-		04/28/2001	04/28/2001
04/28/2001			1000065115	8.06-		04/28/2001	04/28/2001
04/28/2001			1000065117	3.59		04/28/2001	04/28/2001
04/28/2001			1000064833	3.59		04/28/2001	04/28/2001
04/28/2001			1000065107	18.87		04/28/2001	04/28/2001
04/28/2001			1000065109	18.87-		04/28/2001	04/28/2001
04/28/2001			1000065111	18.57		04/28/2001	04/28/2001
04/28/2001			1000065113	18.57-		04/28/2001	04/28/2001
04/28/2001			1000065115	18.57		04/28/2001	04/28/2001
03/28/2001			1000063078	0.58-		03/28/2001	03/28/2001
03/28/2001			1000063080	0.58		03/28/2001	03/28/2001
03/28/2001			1000063500	1.34		03/28/2001	03/28/2001
03/28/2001			1000063502	1.34-		03/28/2001	03/28/2001
03/28/2001			1000063504	1.34		03/28/2001	03/28/2001
03/28/2001			1000063070	1.34-		03/28/2001	03/28/2001
03/28/2001			1000063072	2.14		03/28/2001	03/28/2001
03/28/2001			1000063074	2.14-		03/28/2001	03/28/2001
04/28/2001			1000064833	49.69		04/28/2001	04/28/2001
03/28/2001			1000063500	0.48		03/28/2001	03/28/2001
03/28/2001			1000063502	0.48-		03/28/2001	03/28/2001
03/28/2001			1000063504	0.48		03/28/2001	03/28/2001
03/28/2001			1000063070	0.48-		03/28/2001	03/28/2001
03/28/2001			1000063072	0.58		03/28/2001	03/28/2001
03/28/2001			1000063074	0.58-		03/28/2001	03/28/2001
03/28/2001			1000063076	1.66-		03/28/2001	03/28/2001
03/28/2001			1000063078	1.66		03/28/2001	03/28/2001
03/28/2001			1000063080	1.66		03/28/2001	03/28/2001
03/28/2001			1000063500	0.75		03/28/2001	03/28/2001
03/28/2001			1000063502	0.75-		03/28/2001	03/28/2001
03/28/2001			1000063504	0.76		03/28/2001	03/28/2001
03/28/2001			1000063070	0.76-		03/28/2001	03/28/2001
03/28/2001			1000063076	2.14		03/28/2001	03/28/2001
03/28/2001			1000063078	2.14		03/28/2001	03/28/2001
03/28/2001			1000063080	2.14		03/28/2001	03/28/2001
03/28/2001			1000063500	1.32		03/28/2001	03/28/2001
03/28/2001			1000063502	1.32-		03/28/2001	03/28/2001
03/28/2001			1000063504	1.33		03/28/2001	03/28/2001
03/28/2001			1000063070	1.33-		03/28/2001	03/28/2001

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Desc	Vendor Name
	03/28/2001		100063072	1.66		OVEREND OVEREND	
	03/28/2001		900141710	0.87		H310968UFSalacy Ben	
	04/28/2001		900142407	3.21		H310968UFSalacy Ben	
	03/28/2001		900141710	0.22		H310968UFSalacy Ben	
	04/28/2001		900142407	0.94		H310968UFSalacy Ben	
	03/28/2001		900141710	0.01		H310968UFSalacy Ben	
	04/28/2001		900142407	0.05		H310968UFSalacy Ben	
	03/28/2001	210063518	804199729	1,953.93		ADDRESSING 3/01	
	03/28/2001		100063500	12.35		PLANT IND PLANT INII	
	03/28/2001		900141710	0.09		H310968UFSalacy Ben	
	04/28/2001		900142407	0.39		H310968UFSalacy Ben	
	03/28/2001		900141710	0.23		H310968UFSalacy Ben	
	04/28/2001		900142407	0.95		H310968UFSalacy Ben	
	03/28/2001		900141710	2.31		H310968UFSalacy Ben	
	04/28/2001		900142407	9.73		H310968UFSalacy Ben	
	03/28/2001		900141710	2.98		H310968UFSalacy Ben	
	04/28/2001		900142407	10.53		H310968UFSalacy Ben	
	04/28/2001		100065107	49.69		PLANT IND PLANT INII	
	04/28/2001		100065109	49.69		PLANT IND PLANT INII	
	04/28/2001		100065111	49.69		PLANT IND PLANT INII	
	04/28/2001		100065113	49.69		PLANT IND PLANT INII	
	04/28/2001		100065115	49.69		PLANT IND PLANT INII	
	04/28/2001		100065117	49.69		PLANT IND PLANT INII	
	04/28/2001		100065119	49.69		PLANT IND PLANT INII	
	04/28/2001		100064831	49.69		PLANT IND PLANT INII	
	03/28/2001		100063502	12.35		PLANT IND PLANT INII	
	03/28/2001		100063504	12.59		PLANT IND PLANT INII	
	03/28/2001		100063070	12.59		PLANT IND PLANT INII	
	03/28/2001		100063072	15.41		PLANT IND PLANT INII	
	03/28/2001		100063074	15.41		PLANT IND PLANT INII	
	03/28/2001		100063076	15.41		PLANT IND PLANT INII	
	03/28/2001		100063078	15.41		PLANT IND PLANT INII	
	03/28/2001		100063080	15.41		PLANT IND PLANT INII	
	03/28/2001		100063072	0.95		OVEREND OVEREND	
	03/28/2001		100063500	1.13		OVEREND OVEREND	
	03/28/2001		100063502	1.13		OVEREND OVEREND	
	03/28/2001		100063504	1.13		OVEREND OVEREND	
	03/28/2001		100063070	1.38		OVEREND OVEREND	
	03/28/2001		100063072	1.38		OVEREND OVEREND	
	03/28/2001		100063074	1.38		OVEREND OVEREND	
	03/28/2001		100063076	1.38		OVEREND OVEREND	
	03/28/2001		100063078	1.38		OVEREND OVEREND	
	03/28/2001		100063502	1.77		OVEREND OVEREND	
	03/28/2001		100063504	3.97		OVEREND OVEREND	
	03/28/2001		100063070	3.97		OVEREND OVEREND	
	03/28/2001		100063072	4.87		OVEREND OVEREND	
	03/28/2001		100063074	4.87		OVEREND OVEREND	
	03/28/2001		100063076	4.89		OVEREND OVEREND	
	03/28/2001		100063078	4.89		OVEREND OVEREND	
	03/28/2001		100063080	0.51		OVEREND OVEREND	
	03/28/2001		100063500	0.20		OVEREND OVEREND	
	03/28/2001		100063502	0.20		OVEREND OVEREND	
	03/28/2001		100063504	0.20		OVEREND OVEREND	
	03/28/2001		100063070	0.20		OVEREND OVEREND	

Receives Incorporated
 Accounting Documents for Projects
 Readings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	Fl Doc #	CO Doc #	Amount	P.O. # Document Text	Vendor Name
	03/28/2001		1000063072	0.24	OVERSENO	OVERSENO
	03/28/2001		1000063074	0.24-	OVERSENO	OVERSENO
	03/28/2001		1000063080	1.38	OVERSENO	OVERSENO
	03/28/2001		1000063500	0.42	OVERSENO	OVERSENO
	03/28/2001		1000063502	0.42-	OVERSENO	OVERSENO
	03/28/2001		1000063504	0.42	OVERSENO	OVERSENO
	03/28/2001		1000063070	0.42-	OVERSENO	OVERSENO
	03/28/2001		1000063072	0.51	OVERSENO	OVERSENO
	03/28/2001		1000063074	0.51-	OVERSENO	OVERSENO
	03/28/2001		1000063076	0.51	OVERSENO	OVERSENO
	03/28/2001		1000063072	0.55	OVERSENO	OVERSENO
	03/28/2001		1000063074	0.55-	OVERSENO	OVERSENO
	03/28/2001		1000063076	0.55	OVERSENO	OVERSENO
	03/28/2001		1000063078	0.55-	OVERSENO	OVERSENO
	03/28/2001		1000063080	0.80	OVERSENO	OVERSENO
	03/28/2001		1000063500	0.80	OVERSENO	OVERSENO
	03/28/2001		1000063502	0.80-	OVERSENO	OVERSENO
	03/28/2001		1000063504	0.81	OVERSENO	OVERSENO
	03/28/2001		1000063074	0.95-	OVERSENO	OVERSENO
	03/28/2001		1000063076	0.95	OVERSENO	OVERSENO
	03/28/2001		1000063078	0.95-	OVERSENO	OVERSENO
	03/28/2001		1000063080	0.95	OVERSENO	OVERSENO
	03/28/2001		1000063500	0.45	OVERSENO	OVERSENO
	03/28/2001		1000063502	0.45-	OVERSENO	OVERSENO
	03/28/2001		1000063504	0.45	OVERSENO	OVERSENO
	03/28/2001		1000063070	0.74-	OVERSENO	OVERSENO
	03/28/2001		1000063072	0.90	OVERSENO	OVERSENO
	03/28/2001		1000063074	0.90-	OVERSENO	OVERSENO
	03/28/2001		1000063076	0.90	OVERSENO	OVERSENO
	03/28/2001		1000063078	0.90-	OVERSENO	OVERSENO
	03/28/2001		1000063080	0.90	OVERSENO	OVERSENO
	03/28/2001		1000063500	1.77	OVERSENO	OVERSENO
	03/28/2001		1000063070	0.81-	OVERSENO	OVERSENO
	03/28/2001		1000063072	1.05	OVERSENO	OVERSENO
	03/28/2001		1000063074	1.05-	OVERSENO	OVERSENO
	03/28/2001		1000063076	1.05	OVERSENO	OVERSENO
	03/28/2001		1000063500	0.74-	OVERSENO	OVERSENO
	03/28/2001		1000063500	0.74	OVERSENO	OVERSENO
	03/28/2001		1000063080	1.05	OVERSENO	OVERSENO
	03/28/2001		1000063078	1.05-	OVERSENO	OVERSENO
				20,535.71		
				20,535.71		
				20,281.28		
				0.08		
				0.08-	OVERSENO	OVERSENO
				0.08	OVERSENO	OVERSENO
				3.41	OVERSENO	OVERSENO
				3.41-	OVERSENO	OVERSENO
				0.08-	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10-	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10-	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO
				0.10	OVERSENO	OVERSENO

1042-068FV114
 1042-068FV114-30200
 1042-068FV114-30200-5000

Project / Element	Project Description	FI Doc #	CD Doc #	Amount	P.O. #	Document Text	Vendor Name
03/28/2001			1000063076	3.41		OVERSENO	OVERSENO
03/28/2001			1000063080	7.25		OVERSENO	OVERSENO
03/28/2001			1000063078	7.25		OVERSENO	OVERSENO
03/28/2001			1000063076	7.25		OVERSENO	OVERSENO
03/28/2001			1000063074	7.25		OVERSENO	OVERSENO
03/28/2001			1000063072	7.25		OVERSENO	OVERSENO
03/28/2001			1000063500	2.79		OVERSENO	OVERSENO
03/28/2001			1000063074	3.41		OVERSENO	OVERSENO
03/28/2001			1000063072	2.79		OVERSENO	OVERSENO
03/28/2001			1000063070	3.41		OVERSENO	OVERSENO
03/28/2001			1000063504	2.79		OVERSENO	OVERSENO
03/28/2001			1000063502	2.79		OVERSENO	OVERSENO
04/28/2001			1000064831	96.85		OVERSENO	OVERSENO
04/28/2001			1000065119	96.85		OVERSENO	OVERSENO
04/28/2001			1000065117	96.85		OVERSENO	OVERSENO
04/28/2001			1000065115	96.85		OVERSENO	OVERSENO
04/28/2001			1000065113	96.85		OVERSENO	OVERSENO
04/28/2001			1000064833	96.85		OVERSENO	OVERSENO
04/28/2001			1000065115	96.85		OVERSENO	OVERSENO
04/28/2001			1000065113	63.66		OVERSENO	OVERSENO
04/28/2001			1000065111	63.66		OVERSENO	OVERSENO
04/28/2001			1000065109	63.66		OVERSENO	OVERSENO
04/28/2001			1000065107	63.68		OVERSENO	OVERSENO
04/28/2001			1000065111	96.85		OVERSENO	OVERSENO
04/28/2001			1000065115	51.73		OVERSENO	OVERSENO
04/28/2001			1000065113	51.73		OVERSENO	OVERSENO
04/28/2001			1000065111	51.73		OVERSENO	OVERSENO
04/28/2001			1000065109	51.73		OVERSENO	OVERSENO
04/28/2001			1000065107	51.73		OVERSENO	OVERSENO
04/28/2001			1000065109	96.85		OVERSENO	OVERSENO
04/28/2001			1000065107	96.85		OVERSENO	OVERSENO
04/28/2001			1000064833	51.73		OVERSENO	OVERSENO
04/28/2001			1000064831	51.73		OVERSENO	OVERSENO
04/28/2001			1000065119	51.73		OVERSENO	OVERSENO
03/28/2001			1000063070	5.94		OVERSENO	OVERSENO
03/28/2001			1000063500	0.05		OVERSENO	OVERSENO
03/28/2001			1000063080	12.75		OVERSENO	OVERSENO
03/28/2001			1000063078	12.75		OVERSENO	OVERSENO
03/28/2001			1000063076	12.75		OVERSENO	OVERSENO
03/28/2001			1000063074	12.75		OVERSENO	OVERSENO
03/28/2001			1000063502	0.05		OVERSENO	OVERSENO
03/28/2001			1000063076	0.06		OVERSENO	OVERSENO
03/28/2001			1000063072	0.06		OVERSENO	OVERSENO
03/28/2001			1000063070	0.05		OVERSENO	OVERSENO
03/28/2001			1000063504	0.05		OVERSENO	OVERSENO
03/28/2001			1000063072	12.75		OVERSENO	OVERSENO
03/28/2001			1000063076	14.86		OVERSENO	OVERSENO
03/28/2001			1000063074	14.86		OVERSENO	OVERSENO
03/28/2001			1000063072	14.86		OVERSENO	OVERSENO
03/28/2001			1000063070	11.55		OVERSENO	OVERSENO
03/28/2001			1000063504	11.55		OVERSENO	OVERSENO
03/28/2001			1000063078	14.86		OVERSENO	OVERSENO
03/28/2001			1000063076	10.45		OVERSENO	OVERSENO
03/28/2001			1000063504	10.45		OVERSENO	OVERSENO

Facules Incorporated
Accounting Documents for Projects
Readings Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1092

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
03/28/2001			1000063502	10.45-		OVEREND	OVEREND
03/28/2001			1000063500	10.45		OVEREND	OVEREND
03/28/2001			1000063080	14.86		OVEREND	OVEREND
03/28/2001			1000063074	19.54-		OVEREND	OVEREND
03/28/2001			1000063072	19.54		OVEREND	OVEREND
03/28/2001			1000063070	16.01-		OVEREND	OVEREND
03/28/2001			1000063504	16.01		OVEREND	OVEREND
03/28/2001			1000063502	16.01-		OVEREND	OVEREND
03/28/2001			1000063076	19.54		OVEREND	OVEREND
03/28/2001			1000063504	5.94		OVEREND	OVEREND
03/28/2001			1000063502	5.94-		OVEREND	OVEREND
03/28/2001			1000063500	5.94		OVEREND	OVEREND
03/28/2001			1000063080	19.54		OVEREND	OVEREND
03/28/2001			1000063078	19.54-		OVEREND	OVEREND
03/28/2001			1000063500	16.01		OVEREND	OVEREND
03/28/2001			1000063504	56.23		OVEREND	OVEREND
03/28/2001			1000063502	25.02-		OVEREND	OVEREND
03/28/2001			1000063500	25.02		OVEREND	OVEREND
03/28/2001			1000063080	0.06-		OVEREND	OVEREND
03/28/2001			1000063078	0.06		OVEREND	OVEREND
03/28/2001			1000063070	56.23-		OVEREND	OVEREND
03/28/2001			1000063080	69.31		OVEREND	OVEREND
03/28/2001			1000063078	69.31-		OVEREND	OVEREND
03/28/2001			1000063076	69.31		OVEREND	OVEREND
03/28/2001			1000063074	69.05-		OVEREND	OVEREND
04/28/2001			1000063117	69.05		OVEREND	OVEREND
04/28/2001			1000063119	63.66-		OVEREND	OVEREND
04/28/2001			1000063117	114.14		OVEREND	OVEREND
04/28/2001			1000063115	114.14-		OVEREND	OVEREND
04/28/2001			1000063113	114.14		OVEREND	OVEREND
04/28/2001			1000063111	114.14-		OVEREND	OVEREND
04/28/2001			1000064831	114.14-		OVEREND	OVEREND
04/28/2001			1000063113	7.04-		OVEREND	OVEREND
04/28/2001			1000063111	7.04		OVEREND	OVEREND
04/28/2001			1000063109	7.04-		OVEREND	OVEREND
04/28/2001			1000063107	7.04		OVEREND	OVEREND
04/28/2001			1000064833	114.14		OVEREND	OVEREND
04/28/2001			1000063109	114.14-		OVEREND	OVEREND
04/28/2001			1000063113	114.14-		OVEREND	OVEREND
04/28/2001			1000063111	263.10-		OVEREND	OVEREND
04/28/2001			1000063109	263.10		OVEREND	OVEREND
04/28/2001			1000063107	267.40-		OVEREND	OVEREND
04/28/2001			1000064833	267.40		OVEREND	OVEREND
04/28/2001			1000063115	50.93		OVEREND	OVEREND
04/28/2001			1000063117	263.07		OVEREND	OVEREND
04/28/2001			1000064833	114.14		OVEREND	OVEREND
04/28/2001			1000064831	263.07		OVEREND	OVEREND
04/28/2001			1000063119	263.07-		OVEREND	OVEREND
04/28/2001			1000063117	263.07-		OVEREND	OVEREND
04/28/2001			1000063111	0.14		OVEREND	OVEREND
04/28/2001			1000063109	0.14-		OVEREND	OVEREND
04/28/2001			1000063107	0.14		OVEREND	OVEREND
04/28/2001			1000064833	5.42		OVEREND	OVEREND
04/28/2001			1000064831	5.42-		OVEREND	OVEREND
04/28/2001			1000063113	0.14-		OVEREND	OVEREND

Hercules Incorporated
 Accounting Documents for Projects
 Restings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
	04/28/2001		100064833	0.14		OVEREND	OVEREND
	04/28/2001		100064831	0.14		OVEREND	OVEREND
	04/28/2001		100065119	0.14		OVEREND	OVEREND
	04/28/2001		100065117	0.14		OVEREND	OVEREND
	04/28/2001		100065115	0.14		OVEREND	OVEREND
	04/28/2001		100065119	5.42		OVEREND	OVEREND
	04/28/2001		100064833	7.04		OVEREND	OVEREND
	04/28/2001		100064831	7.04		OVEREND	OVEREND
	04/28/2001		100065119	7.04		OVEREND	OVEREND
	04/28/2001		100065117	7.04		OVEREND	OVEREND
	04/28/2001		100065115	7.04		OVEREND	OVEREND
	04/28/2001		100065107	5.42		OVEREND	OVEREND
	04/28/2001		100065117	5.42		OVEREND	OVEREND
	04/28/2001		100065115	5.42		OVEREND	OVEREND
	04/28/2001		100065113	5.42		OVEREND	OVEREND
	04/28/2001		100065109	5.42		OVEREND	OVEREND
	04/28/2001		100065111	5.42		OVEREND	OVEREND
	04/28/2001		100064831	50.93		OVEREND	OVEREND
	04/28/2001		100065115	27.83		OVEREND	OVEREND
	04/28/2001		100065113	27.83		OVEREND	OVEREND
	04/28/2001		100065111	27.83		OVEREND	OVEREND
	04/28/2001		100065109	27.84		OVEREND	OVEREND
	04/28/2001		100065107	27.83		OVEREND	OVEREND
	04/28/2001		100065117	26.51		OVEREND	OVEREND
	04/28/2001		100065109	27.83		OVEREND	OVEREND
	04/28/2001		100064833	27.83		OVEREND	OVEREND
	04/28/2001		100065119	61.01		OVEREND	OVEREND
	04/28/2001		100064833	61.03		OVEREND	OVEREND
	04/28/2001		100065107	63.66		OVEREND	OVEREND
	04/28/2001		100064831	63.66		OVEREND	OVEREND
	04/28/2001		100065119	61.01		OVEREND	OVEREND
	04/28/2001		100065117	61.01		OVEREND	OVEREND
	04/28/2001		100065115	61.01		OVEREND	OVEREND
	04/28/2001		100065113	61.01		OVEREND	OVEREND
	04/28/2001		100065107	50.95		OVEREND	OVEREND
	04/28/2001		100064833	40.95		OVEREND	OVEREND
	04/28/2001		100064831	40.95		OVEREND	OVEREND
	04/28/2001		100065119	40.95		OVEREND	OVEREND
	04/28/2001		100065117	40.95		OVEREND	OVEREND
	04/28/2001		100065115	50.93		OVEREND	OVEREND
	04/28/2001		100065113	50.93		OVEREND	OVEREND
	04/28/2001		100065111	50.93		OVEREND	OVEREND
	04/28/2001		100065115	40.95		OVEREND	OVEREND
	04/28/2001		100065119	26.49		OVEREND	OVEREND
	04/28/2001		100065117	26.49		OVEREND	OVEREND
	04/28/2001		100065115	26.49		OVEREND	OVEREND

Removes Incorporated
Accounting Documents for Projects
Readings Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. # Document Desc	Vendor Name
04/28/2001			100065113	26.49-	OVEREND OVEREND	
04/28/2001			100065111	26.49	OVEREND OVEREND	
04/28/2001			100064831	26.49-	OVEREND OVEREND	
04/28/2001			100065113	40.95-	OVEREND OVEREND	
04/28/2001			100065111	40.95	OVEREND OVEREND	
04/28/2001			100065109	40.95-	OVEREND OVEREND	
04/28/2001			100065107	40.95	OVEREND OVEREND	
04/28/2001			100064833	26.49	OVEREND OVEREND	
02/28/2001			100060703	8.98	OVEREND OVEREND	
02/28/2001			100060715	3.12-	OVEREND OVEREND	
02/28/2001			100060713	3.12-	OVEREND OVEREND	
02/28/2001			100060709	3.12-	OVEREND OVEREND	
02/28/2001			100060705	8.98-	OVEREND OVEREND	
02/28/2001			100060715	9.00	OVEREND OVEREND	
02/28/2001			100060713	9.00-	OVEREND OVEREND	
02/28/2001			100060711	9.00	OVEREND OVEREND	
02/28/2001			100060709	9.00-	OVEREND OVEREND	
02/28/2001			100060707	9.00	OVEREND OVEREND	
02/28/2001			100060705	3.12	OVEREND OVEREND	
04/28/2001			100065115	703.98	PLANT INO PLANT INII	
04/28/2001			100065113	703.98-	PLANT INO PLANT INII	
04/28/2001			100065111	703.98	PLANT INO PLANT INII	
04/28/2001			100065109	703.98-	PLANT INO PLANT INII	
04/28/2001			100065107	703.98	PLANT INO PLANT INII	
04/28/2001			100065117	703.98-	PLANT INO PLANT INII	
02/28/2001			100060705	3.12-	OVEREND OVEREND	
02/28/2001			100060703	3.12	OVEREND OVEREND	
04/28/2001			100064833	704.03	PLANT INO PLANT INII	
04/28/2001			100064831	703.98-	PLANT INO PLANT INII	
04/28/2001			100065119	703.98	PLANT INO PLANT INII	
02/28/2001			100060707	3.32	OVEREND OVEREND	
02/28/2001			100060705	3.29-	OVEREND OVEREND	
02/28/2001			100060703	3.29	OVEREND OVEREND	
02/28/2001			100060715	4.82	OVEREND OVEREND	
02/28/2001			100060713	4.82-	OVEREND OVEREND	
02/28/2001			100060709	3.32-	OVEREND OVEREND	
02/28/2001			100060705	3.32-	OVEREND OVEREND	
02/28/2001			100060703	3.32	OVEREND OVEREND	
02/28/2001			100060713	3.32-	OVEREND OVEREND	
02/28/2001			100060711	3.32	OVEREND OVEREND	
02/28/2001			100060711	4.82	OVEREND OVEREND	
02/28/2001			100060711	4.63	OVEREND OVEREND	
02/28/2001			100060709	4.63-	OVEREND OVEREND	
02/28/2001			100060703	4.60-	OVEREND OVEREND	
02/28/2001			100060713	4.60	OVEREND OVEREND	
02/28/2001			100060709	4.82-	OVEREND OVEREND	
02/28/2001			100060707	4.82	OVEREND OVEREND	
02/28/2001			100060705	4.79-	OVEREND OVEREND	
02/28/2001			100060703	4.79	OVEREND OVEREND	
02/28/2001			100060715	4.63	OVEREND OVEREND	
03/28/2001			1000063080	218.29	PLANT INO PLANT INII	
02/07/2001		500019177	803914220	12,027.75	4500380529 KUMING STORAGE TANK R S EXCERPT & COMPANY	

Harcoless Incorporated
Accounting Documents for Projects
Periods Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
04/28/2001			900142407	0.75			
03/28/2001			900141710	0.18			BRJ0999SURSalary Ben
04/28/2001			900142407	13.32			BRJ0999SURSalary Ben
03/28/2001			900141710	3.16			BRJ0999SURSalary Ben
02/07/2001		5100258001	803917801	893.96			BRJ0999SURSalary Ben
02/28/2001			1501111617	154.00			
02/15/2001		4900944955	803955586	1.60			
02/14/2001		4900944585	803949448	4.57			
02/14/2001		4900944585	803949448	2.33			
04/28/2001		4900944585	803949448	15.59			
03/28/2001			900142407	45.54			
04/28/2001			900141710	3.21			BRJ0999SURSalary Ben
03/28/2001			900142407	5.53			BRJ0999SURSalary Ben
03/28/2001			900141710	1.31			BRJ0999SURSalary Ben
02/23/2001		5000194313	803969009	383.49			
02/23/2001		5000194313	803969009	4,160.00			4500396231 ADDITIONAL TRK WORK INDUSTRIAL SERVICES OF MOBILE
04/28/2001			900142407	13.52			4500396231 ADDITIONAL TRK WORK INDUSTRIAL SERVICES OF MOBILE
04/28/2001			900141710	12.36			BRJ0999SURSalary Ben
04/28/2001			900142407	149.44			BRJ0999SURSalary Ben
03/28/2001			900141710	42.20			BRJ0999SURSalary Ben
04/28/2001			900142407	137.91			BRJ0999SURSalary Ben
03/28/2001			900141710	32.73			BRJ0999SURSalary Ben
03/28/2001			1000663502	175.02			PLANT IND PLANT INDI
03/28/2001			1000663500	175.02			PLANT IND PLANT INDI
02/28/2001			1000607715	66.35			PLANT IND PLANT INDI
02/28/2001			1000607713	66.35			PLANT IND PLANT INDI
02/28/2001			1000607711	66.35			PLANT IND PLANT INDI
03/28/2001			1000663504	178.42			PLANT IND PLANT INDI
03/28/2001			1000663078	218.29			PLANT IND PLANT INDI
03/28/2001			1000663076	218.29			PLANT IND PLANT INDI
03/28/2001			1000663074	218.29			PLANT IND PLANT INDI
03/28/2001			1000663072	218.29			PLANT IND PLANT INDI
03/28/2001			1000663070	178.42			PLANT IND PLANT INDI
02/28/2001			1000607709	66.35			PLANT IND PLANT INDI
02/28/2001			1000607707	66.82			FRINGE WAGE FRING
02/28/2001			1000607705	66.82			FRINGE WAGE FRING
02/28/2001			1000607703	66.82			FRINGE WAGE FRING
02/28/2001			1600056434	17.68			
02/28/2001			1000607711	66.82			FRINGE WAGE FRING
02/28/2001			1000607707	66.35			PLANT IND PLANT INDI
02/28/2001			1000607705	66.35			PLANT IND PLANT INDI
02/28/2001			1000607715	66.82			PLANT IND PLANT INDI
02/28/2001			1000607713	66.82			FRINGE WAGE FRING
02/28/2001			1000607707	3.96			FRINGE WAGE FRING
03/28/2001			1000663080	30.27			OVERHEAD
03/28/2001			1000663078	30.27			OVERHEAD
03/28/2001			1000663076	30.27			OVERHEAD
03/28/2001			1000663074	30.27			OVERHEAD
03/28/2001			1000663072	30.27			OVERHEAD
03/28/2001			1000663500	18.72			OVERHEAD
03/28/2001			1000663074	23.58			OVERHEAD
03/28/2001			1000663072	23.58			OVERHEAD
03/28/2001			1000663070	18.86			OVERHEAD
03/28/2001			1000663504	18.86			OVERHEAD

Hercules Incorporated
 Accounting Documents for Projects
 Readings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
	03/28/2001		1000063502	18.72-		OVEREND	OVEREND
	03/28/2001		1000063070	19.00-		OVEREND	OVEREND
	03/28/2001		1000063074	8.25-		OVEREND	OVEREND
	03/28/2001		1000063072	8.25		OVEREND	OVEREND
	03/28/2001		1000063070	6.76-		OVEREND	OVEREND
	03/28/2001		1000063504	6.76		OVEREND	OVEREND
	03/28/2001		1000063502	6.76-		OVEREND	OVEREND
	03/28/2001		1000063076	8.25		OVEREND	OVEREND
	03/28/2001		1000063504	19.00		OVEREND	OVEREND
	03/28/2001		1000063502	19.00-		OVEREND	OVEREND
	03/28/2001		1000063500	19.00		OVEREND	OVEREND
	03/28/2001		1000063080	8.25		OVEREND	OVEREND
	03/28/2001		1000063078	8.25-		OVEREND	OVEREND
	03/28/2001		1000063072	7.75		OVEREND	OVEREND
	03/28/2001		1000063070	6.34-		OVEREND	OVEREND
	03/28/2001		1000063504	6.34		OVEREND	OVEREND
	03/28/2001		1000063502	6.33-		OVEREND	OVEREND
	03/28/2001		1000063500	6.33		OVEREND	OVEREND
	03/28/2001		1000063074	7.75-		OVEREND	OVEREND
	03/28/2001		1000063502	11.36-		OVEREND	OVEREND
	03/28/2001		1000063500	11.36		OVEREND	OVEREND
	03/28/2001		1000063080	7.75		OVEREND	OVEREND
	03/28/2001		1000063078	7.75-		OVEREND	OVEREND
	03/28/2001		1000063076	7.75		OVEREND	OVEREND
	03/28/2001		1000063080	13.46		OVEREND	OVEREND
	03/28/2001		1000063502	10.63-		OVEREND	OVEREND
	03/28/2001		1000063500	10.63		OVEREND	OVEREND
	03/28/2001		1000063080	23.58-		OVEREND	OVEREND
	03/28/2001		1000063078	23.58		OVEREND	OVEREND
	03/28/2001		1000063076	23.58		OVEREND	OVEREND
	03/28/2001		1000063504	10.72		OVEREND	OVEREND
	03/28/2001		1000063078	13.46-		OVEREND	OVEREND
	03/28/2001		1000063076	13.46		OVEREND	OVEREND
	03/28/2001		1000063074	13.46-		OVEREND	OVEREND
	03/28/2001		1000063070	10.72-		OVEREND	OVEREND
	03/28/2001		1000063500	6.76		OVEREND	OVEREND
	02/28/2001		1000060713	1.47-		OVEREND	OVEREND
	02/28/2001		1000060711	1.47-		OVEREND	OVEREND
	02/28/2001		1000060709	1.47		OVEREND	OVEREND
	02/28/2001		1000060707	1.47		OVEREND	OVEREND
	02/28/2001		1000060705	1.45-		OVEREND	OVEREND
	02/28/2001		1000060715	1.47		OVEREND	OVEREND
	02/28/2001		1000060711	27.47		OVEREND	OVEREND
	02/28/2001		1000060709	27.42-		OVEREND	OVEREND
	02/28/2001		1000060707	27.42		OVEREND	OVEREND
	02/28/2001		1000060705	23.01-		OVEREND	OVEREND
	02/28/2001		1000060703	23.01		OVEREND	OVEREND
	02/28/2001		1000060703	1.45		OVEREND	OVEREND
	02/28/2001		1000060715	7.81		OVEREND	OVEREND
	02/28/2001		1000060713	3.96-		OVEREND	OVEREND
	02/28/2001		1000060711	3.96		OVEREND	OVEREND
	02/28/2001		1000060709	3.96-		OVEREND	OVEREND
	02/28/2001		1000060705	7.81-		OVEREND	OVEREND
	02/28/2001		1000060715	7.84		OVEREND	OVEREND

Hampden Incorporated
 Accounting Documents for Projects
 Postings Between 01/28/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	F.O. #	Document Text	Vendor Name
	02/28/2001		100060713	7.84-		OVEREND	OVEREND
	02/28/2001		100060711	7.84		OVEREND	OVEREND
	02/28/2001		100060709	7.84-		OVEREND	OVEREND
	02/28/2001		100060707	7.84-		OVEREND	OVEREND
	02/28/2001		100060703	1.94		OVEREND	OVEREND
	02/28/2001		100060715	2.29-		OVEREND	OVEREND
	02/28/2001		100060713	2.29-		OVEREND	OVEREND
	02/28/2001		100060711	2.29-		OVEREND	OVEREND
	02/28/2001		100060709	1.94-		OVEREND	OVEREND
	02/28/2001		100060715	1.94-		OVEREND	OVEREND
	02/28/2001		100060713	1.94-		OVEREND	OVEREND
	02/28/2001		100060711	1.94		OVEREND	OVEREND
	02/28/2001		100060709	1.94-		OVEREND	OVEREND
	02/28/2001		100060707	1.94		OVEREND	OVEREND
	02/28/2001		100060703	2.29		OVEREND	OVEREND
	02/28/2001		100060715	13.67		OVEREND	OVEREND
	02/28/2001		100060713	13.64-		OVEREND	OVEREND
	02/28/2001		100060703	13.64		OVEREND	OVEREND
	02/28/2001		100060715	27.47		OVEREND	OVEREND
	02/28/2001		100060713	27.47-		OVEREND	OVEREND
	02/28/2001		100060709	13.67-		OVEREND	OVEREND
	02/28/2001		100060705	2.29-		OVEREND	OVEREND
	02/28/2001		100060703	2.29		OVEREND	OVEREND
	02/28/2001		100060715	13.67		OVEREND	OVEREND
	02/28/2001		100060713	13.67-		OVEREND	OVEREND
	02/28/2001		100060711	13.67		OVEREND	OVEREND
				254.43			
	04/28/2001		100065113	6.46-		OVEREND	OVEREND
	04/28/2001		100065111	6.46		OVEREND	OVEREND
	04/28/2001		100065109	6.46-		OVEREND	OVEREND
	04/28/2001		100065107	6.46		OVEREND	OVEREND
	04/28/2001		100065115	6.46		OVEREND	OVEREND
	04/28/2001		100065117	6.46-		OVEREND	OVEREND
	04/28/2001		100064831	6.46		OVEREND	OVEREND
	04/28/2001		100065109	6.46-		OVEREND	OVEREND
	04/28/2001		100065111	6.74		OVEREND	OVEREND
	04/28/2001		100065113	6.74-		OVEREND	OVEREND
	04/28/2001		100065115	6.74		OVEREND	OVEREND
	04/28/2001		100065117	6.74-		OVEREND	OVEREND
	04/28/2001		100064831	6.74		OVEREND	OVEREND
	04/28/2001		100064833	6.74-		OVEREND	OVEREND
	04/28/2001		100064831	6.74		OVEREND	OVEREND
	04/28/2001		100064833	2.95-		OVEREND	OVEREND
	04/28/2001		100065107	2.95		OVEREND	OVEREND
	04/28/2001		100065109	2.81		OVEREND	OVEREND
	04/28/2001		100065111	2.81-		OVEREND	OVEREND
	04/28/2001		100065113	2.80		OVEREND	OVEREND
	04/28/2001		100065115	2.80-		OVEREND	OVEREND
	04/28/2001		100065117	2.80		OVEREND	OVEREND
	04/28/2001		100064833	2.80-		OVEREND	OVEREND
	04/28/2001		100065107	6.46		OVEREND	OVEREND
	04/28/2001		100065109	2.95-		OVEREND	OVEREND
	04/28/2001		100065111	2.95		OVEREND	OVEREND

Removes Incorporated
 Accounting Documents for Projects
 Postings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	FI Doc #	CD Doc #	Amount	P.O. #	Document Text	Vendor Name
04/28/2001		100065113	2.95-		OVERHEAD	OVERHEAD
04/28/2001		100065115	2.95		OVERHEAD	OVERHEAD
04/28/2001		100065117	2.95-		OVERHEAD	OVERHEAD
04/28/2001		100065119	2.95		OVERHEAD	OVERHEAD
04/28/2001		100065107	6.74		OVERHEAD	OVERHEAD
03/28/2001		100063070	0.01-		OVERHEAD	OVERHEAD
03/28/2001		100063072	0.01		OVERHEAD	OVERHEAD
03/28/2001		100063074	0.01-		OVERHEAD	OVERHEAD
03/28/2001		100063076	0.01		OVERHEAD	OVERHEAD
03/28/2001		100063078	0.01-		OVERHEAD	OVERHEAD
03/28/2001		100063107	0.01		OVERHEAD	OVERHEAD
04/28/2001		100063080	5.48		OVERHEAD	OVERHEAD
04/28/2001		100063109	5.48-		OVERHEAD	OVERHEAD
03/28/2001		100063072	0.36		OVERHEAD	OVERHEAD
03/28/2001		100063074	0.36-		OVERHEAD	OVERHEAD
03/28/2001		100063076	0.36		OVERHEAD	OVERHEAD
03/28/2001		100063078	0.36-		OVERHEAD	OVERHEAD
03/28/2001		100063080	0.36		OVERHEAD	OVERHEAD
03/28/2001		100063500	0.01		OVERHEAD	OVERHEAD
03/28/2001		100063502	0.01-		OVERHEAD	OVERHEAD
03/28/2001		100063504	0.01		OVERHEAD	OVERHEAD
04/28/2001		100065109	10.25-		OVERHEAD	OVERHEAD
04/28/2001		100065111	10.25		OVERHEAD	OVERHEAD
04/28/2001		100065113	10.25-		OVERHEAD	OVERHEAD
04/28/2001		100065115	10.25		OVERHEAD	OVERHEAD
04/28/2001		100065117	10.25-		OVERHEAD	OVERHEAD
04/28/2001		100065119	10.25		OVERHEAD	OVERHEAD
04/28/2001		100064831	10.25		OVERHEAD	OVERHEAD
04/28/2001		100064833	10.25		OVERHEAD	OVERHEAD
04/28/2001		100065111	5.48		OVERHEAD	OVERHEAD
04/28/2001		100065113	5.48-		OVERHEAD	OVERHEAD
04/28/2001		100065115	5.48		OVERHEAD	OVERHEAD
04/28/2001		100065117	5.48-		OVERHEAD	OVERHEAD
04/28/2001		100065119	5.48		OVERHEAD	OVERHEAD
04/28/2001		100064831	5.48-		OVERHEAD	OVERHEAD
04/28/2001		100064833	5.48		OVERHEAD	OVERHEAD
04/28/2001		100065107	10.25		OVERHEAD	OVERHEAD
04/28/2001		100065119	2.80		OVERHEAD	OVERHEAD
04/28/2001		100065113	0.75-		OVERHEAD	OVERHEAD
04/28/2001		100065115	0.75		OVERHEAD	OVERHEAD
04/28/2001		100065117	0.75-		OVERHEAD	OVERHEAD
04/28/2001		100065119	0.75		OVERHEAD	OVERHEAD
04/28/2001		100064833	0.75-		OVERHEAD	OVERHEAD
04/28/2001		100065107	0.57		OVERHEAD	OVERHEAD
04/28/2001		100065109	0.57-		OVERHEAD	OVERHEAD
04/28/2001		100065115	12.09		OVERHEAD	OVERHEAD
04/28/2001		100065117	12.09-		OVERHEAD	OVERHEAD
04/28/2001		100065119	12.09		OVERHEAD	OVERHEAD
04/28/2001		100064831	12.09-		OVERHEAD	OVERHEAD
04/28/2001		100064833	12.09		OVERHEAD	OVERHEAD
04/28/2001		100065107	0.75		OVERHEAD	OVERHEAD
04/28/2001		100065109	0.75-		OVERHEAD	OVERHEAD
04/28/2001		100065111	0.75		OVERHEAD	OVERHEAD
04/28/2001		100065109	0.01-		OVERHEAD	OVERHEAD
04/28/2001		100065111	0.01		OVERHEAD	OVERHEAD

Hampden Incorporated
 Accounting Documents for Projects
 Postings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CD Doc #	Amount	P.O. #	Document Text	Vendor Name
	04/28/2001		100065113	0.01-		OVEREND	OVEREND
	04/28/2001		100065115	0.01		OVEREND	OVEREND
	04/28/2001		100065117	0.01-		OVEREND	OVEREND
	04/28/2001		100065119	0.01		OVEREND	OVEREND
	04/28/2001		100064831	0.01-		OVEREND	OVEREND
	04/28/2001		100064833	0.01		OVEREND	OVEREND
	04/28/2001		100065111	0.57		OVEREND	OVEREND
	04/28/2001		100065113	0.57-		OVEREND	OVEREND
	04/28/2001		100065115	0.57-		OVEREND	OVEREND
	04/28/2001		100065117	0.57-		OVEREND	OVEREND
	04/28/2001		100065119	0.57		OVEREND	OVEREND
	04/28/2001		100064831	0.57-		OVEREND	OVEREND
	04/28/2001		100064833	0.57		OVEREND	OVEREND
	04/28/2001		100065107	0.01		OVEREND	OVEREND
	04/28/2001		100065113	12.09-		OVEREND	OVEREND
	04/28/2001		100065119	4.34		OVEREND	OVEREND
	04/28/2001		100064831	4.34-		OVEREND	OVEREND
	04/28/2001		100064833	4.34-		OVEREND	OVEREND
	04/28/2001		100065107	5.39		OVEREND	OVEREND
	04/28/2001		100065109	5.39-		OVEREND	OVEREND
	04/28/2001		100065111	5.39		OVEREND	OVEREND
	04/28/2001		100065113	5.39-		OVEREND	OVEREND
	04/28/2001		100065115	5.39		OVEREND	OVEREND
	04/28/2001		100064831	2.80		OVEREND	OVEREND
	04/28/2001		100064833	4.34		OVEREND	OVEREND
	04/28/2001		100065107	4.34-		OVEREND	OVEREND
	04/28/2001		100065109	4.34-		OVEREND	OVEREND
	04/28/2001		100065111	27.85		OVEREND	OVEREND
	04/28/2001		100065113	27.85-		OVEREND	OVEREND
	04/28/2001		100064831	27.85		OVEREND	OVEREND
	04/28/2001		100064833	27.85-		OVEREND	OVEREND
	04/28/2001		100065109	12.09		OVEREND	OVEREND
	04/28/2001		100065111	12.09-		OVEREND	OVEREND
	04/28/2001		100065113	5.39-		OVEREND	OVEREND
	04/28/2001		100065115	5.39-		OVEREND	OVEREND
	04/28/2001		100064831	28.31		OVEREND	OVEREND
	04/28/2001		100065107	28.31-		OVEREND	OVEREND
	04/28/2001		100065109	27.86		OVEREND	OVEREND
	04/28/2001		100065111	27.86-		OVEREND	OVEREND
	03/28/2001		100063500	2.01		OVEREND	OVEREND
	03/28/2001		100063502	2.01-		OVEREND	OVEREND
	03/28/2001		100063504	2.01		OVEREND	OVEREND
	03/28/2001		100063070	2.01-		OVEREND	OVEREND
	03/28/2001		100063072	3.20		OVEREND	OVEREND
	03/28/2001		100063074	3.20-		OVEREND	OVEREND
	03/28/2001		100063076	3.20		OVEREND	OVEREND
	03/28/2001		100063078	3.20-		OVEREND	OVEREND
	03/28/2001		100063502	0.72-		OVEREND	OVEREND

Remules Incorporated
Accounting Documents for Projects
Readings Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
03/28/2001			1000063504	0.72		OVEREND OVEREND	
03/28/2001			1000063070	0.72-		OVEREND OVEREND	
03/28/2001			1000063072	0.87		OVEREND OVEREND	
03/28/2001			1000063074	0.87-		OVEREND OVEREND	
03/28/2001			1000063076	0.87		OVEREND OVEREND	
03/28/2001			1000063078	0.87-		OVEREND OVEREND	
03/28/2001			1000063080	0.87		OVEREND OVEREND	
03/28/2001			1000063078	2.50-		OVEREND OVEREND	
03/28/2001			1000063080	2.50		OVEREND OVEREND	
03/28/2001			1000063500	1.13		OVEREND OVEREND	
03/28/2001			1000063502	1.13-		OVEREND OVEREND	
03/28/2001			1000063504	1.13		OVEREND OVEREND	
03/28/2001			1000063070	1.13-		OVEREND OVEREND	
03/28/2001			1000063072	1.42		OVEREND OVEREND	
03/28/2001			1000063074	1.42-		OVEREND OVEREND	
03/28/2001			1000063080	3.20		OVEREND OVEREND	
03/28/2001			1000063500	1.98		OVEREND OVEREND	
03/28/2001			1000063502	1.98-		OVEREND OVEREND	
03/28/2001			1000063504	2.00		OVEREND OVEREND	
03/28/2001			1000063070	2.00-		OVEREND OVEREND	
03/28/2001			1000063072	2.50		OVEREND OVEREND	
03/28/2001			1000063074	2.50-		OVEREND OVEREND	
03/28/2001			1000063500	0.72		OVEREND OVEREND	
04/28/2001			900141710	1.31		OVEREND OVEREND	
03/28/2001			900142407	4.82		RA3095SNFSSalary Ben	
03/28/2001			900141710	0.33		RA3095SNFSSalary Ben	
04/28/2001			900142407	1.41		RA3095SNFSSalary Ben	
03/28/2001			900141710	0.02		RA3095SNFSSalary Ben	
04/28/2001			900142407	0.08		RA3095SNFSSalary Ben	
03/28/2001			1000063500	18.53		PLANT IND PLANT INDI	
03/28/2001			1000063502	18.53-		PLANT IND PLANT INDI	
03/28/2001			900141710	0.14		RA3095SNFSSalary Ben	
04/28/2001			900142407	0.59		RA3095SNFSSalary Ben	
03/28/2001			900141710	0.34		RA3095SNFSSalary Ben	
03/28/2001			900142407	1.43		RA3095SNFSSalary Ben	
04/28/2001			900141710	3.47		RA3095SNFSSalary Ben	
03/28/2001			900142407	14.60		RA3095SNFSSalary Ben	
04/28/2001			900141710	4.47		RA3095SNFSSalary Ben	
03/28/2001			900142407	15.82		RA3095SNFSSalary Ben	
04/28/2001			1000065109	74.54-		PLANT IND PLANT INDI	
04/28/2001			1000065111	74.54-		PLANT IND PLANT INDI	
04/28/2001			1000065113	74.54-		PLANT IND PLANT INDI	
04/28/2001			1000065115	74.54		PLANT IND PLANT INDI	
04/28/2001			1000065117	74.54-		PLANT IND PLANT INDI	
04/28/2001			1000065119	74.54		PLANT IND PLANT INDI	
04/28/2001			1000064831	74.54-		PLANT IND PLANT INDI	
04/28/2001			1000064833	74.54		PLANT IND PLANT INDI	
03/28/2001			1000063504	18.89		PLANT IND PLANT INDI	
03/28/2001			1000063070	18.89-		PLANT IND PLANT INDI	
03/28/2001			1000063072	23.11		PLANT IND PLANT INDI	
03/28/2001			1000063074	23.11-		PLANT IND PLANT INDI	
03/28/2001			1000063076	23.11		PLANT IND PLANT INDI	
03/28/2001			1000063078	23.11-		PLANT IND PLANT INDI	
03/28/2001			1000063080	23.11		PLANT IND PLANT INDI	
04/28/2001			1000065107	74.54		PLANT IND PLANT INDI	

Hercules Incorporated
Accounting Documents for Projects
Readings Between 01/29/2001 and 04/28/2001
Company Code 0106 Plant 1092

Project / Element	Project Description	Fr Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
	03/28/2001		1000063076	1.42		OVEREND	OVEREND
	03/28/2001		1000063078	7.34		OVEREND	OVEREND
	03/28/2001		1000063080	7.34		OVEREND	OVEREND
	03/28/2001		1000063500	1.69		OVEREND	OVEREND
	03/28/2001		1000063502	1.69		OVEREND	OVEREND
	03/28/2001		1000063504	1.69		OVEREND	OVEREND
	03/28/2001		1000063070	1.69		OVEREND	OVEREND
	03/28/2001		1000063072	2.07		OVEREND	OVEREND
	03/28/2001		1000063074	2.07		OVEREND	OVEREND
	03/28/2001		1000063080	0.01		OVEREND	OVEREND
	03/28/2001		1000063504	2.65		OVEREND	OVEREND
	03/28/2001		1000063504	5.95		OVEREND	OVEREND
	03/28/2001		1000063070	5.95		OVEREND	OVEREND
	03/28/2001		1000063072	7.31		OVEREND	OVEREND
	03/28/2001		1000063074	7.31		OVEREND	OVEREND
	03/28/2001		1000063076	7.34		OVEREND	OVEREND
	03/28/2001		1000063074	0.77		OVEREND	OVEREND
	03/28/2001		1000063076	0.77		OVEREND	OVEREND
	03/28/2001		1000063078	0.77		OVEREND	OVEREND
	03/28/2001		1000063080	0.77		OVEREND	OVEREND
	03/28/2001		1000063500	0.30		OVEREND	OVEREND
	03/28/2001		1000063502	0.30		OVEREND	OVEREND
	03/28/2001		1000063504	0.30		OVEREND	OVEREND
	03/28/2001		1000063070	0.30		OVEREND	OVEREND
	03/28/2001		1000063076	2.07		OVEREND	OVEREND
	03/28/2001		1000063078	2.07		OVEREND	OVEREND
	03/28/2001		1000063080	2.07		OVEREND	OVEREND
	03/28/2001		1000063500	0.63		OVEREND	OVEREND
	03/28/2001		1000063502	0.63		OVEREND	OVEREND
	03/28/2001		1000063504	0.63		OVEREND	OVEREND
	03/28/2001		1000063070	0.63		OVEREND	OVEREND
	03/28/2001		1000063072	0.77		OVEREND	OVEREND
	03/28/2001		1000063078	0.01		OVEREND	OVEREND
	03/28/2001		1000063076	0.82		OVEREND	OVEREND
	03/28/2001		1000063078	0.82		OVEREND	OVEREND
	03/28/2001		1000063080	0.82		OVEREND	OVEREND
	03/28/2001		1000063500	1.20		OVEREND	OVEREND
	03/28/2001		1000063502	1.22		OVEREND	OVEREND
	03/28/2001		1000063504	1.22		OVEREND	OVEREND
	03/28/2001		1000063070	1.57		OVEREND	OVEREND
	03/28/2001		1000063072	1.42		OVEREND	OVEREND
	03/28/2001		1000063080	1.42		OVEREND	OVEREND
	03/28/2001		1000063500	0.67		OVEREND	OVEREND
	03/28/2001		1000063502	0.67		OVEREND	OVEREND
	03/28/2001		1000063504	0.67		OVEREND	OVEREND
	03/28/2001		1000063070	0.67		OVEREND	OVEREND
	03/28/2001		1000063072	0.82		OVEREND	OVEREND
	03/28/2001		1000063074	0.82		OVEREND	OVEREND
	03/28/2001		1000063072	1.35		OVEREND	OVEREND
	03/28/2001		1000063074	1.35		OVEREND	OVEREND
	03/28/2001		1000063076	1.35		OVEREND	OVEREND
	03/28/2001		1000063078	1.35		OVEREND	OVEREND
	03/28/2001		1000063080	1.35		OVEREND	OVEREND
	03/28/2001		1000063072	0.01		OVEREND	OVEREND

Hercules Incorporated
 Accounting Documents for Projects
 Postings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
	03/28/2001		1000063074	0.01		OVEREND OVEREND	
	03/28/2001		1000063076	0.01		OVEREND OVEREND	
	03/28/2001		1000063074	1.57		OVEREND OVEREND	
	03/28/2001		1000063076	1.57		OVEREND OVEREND	
	03/28/2001		1000063078	1.57		OVEREND OVEREND	
	03/28/2001		1000063080	1.57		OVEREND OVEREND	
	03/28/2001		1000063070	1.11		OVEREND OVEREND	
	03/28/2001		1000063504	1.11		OVEREND OVEREND	
	03/28/2001		1000063502	1.11		OVEREND OVEREND	
	03/28/2001		1000063500	1.11		OVEREND OVEREND	
				2,920.64			
				2,920.64			
				2,920.64			
				2,920.64			
	03/28/2001		1000063504	0.01		OVEREND OVEREND	
	03/28/2001		1000063502	0.01		OVEREND OVEREND	
	03/28/2001		1000063500	0.01		OVEREND OVEREND	
	03/28/2001		1000063070	2.71		OVEREND OVEREND	
	03/28/2001		1000063070	0.01		OVEREND OVEREND	
	03/28/2001		1000063500	6.48		OVEREND OVEREND	
	03/28/2001		1000063502	6.48		OVEREND OVEREND	
	03/28/2001		1000063504	14.56		OVEREND OVEREND	
	03/28/2001		1000063504	2.71		OVEREND OVEREND	
	03/28/2001		1000063504	1.64		OVEREND OVEREND	
	03/28/2001		1000063070	1.64		OVEREND OVEREND	
	03/28/2001		1000063500	2.94		OVEREND OVEREND	
	03/28/2001		1000063502	2.94		OVEREND OVEREND	
	03/28/2001		1000063504	2.99		OVEREND OVEREND	
	03/28/2001		1000063070	2.99		OVEREND OVEREND	
	03/28/2001		1000063500	2.71		OVEREND OVEREND	
	03/28/2001		1000063502	2.71		OVEREND OVEREND	
	03/28/2001		1000063500	0.72		OVEREND OVEREND	
	03/28/2001		1000063502	0.72		OVEREND OVEREND	
	03/28/2001		1000063504	0.72		OVEREND OVEREND	
	03/28/2001		1000063070	0.02		OVEREND OVEREND	
	03/28/2001		1000063502	0.02		OVEREND OVEREND	
	03/28/2001		1000063504	0.02		OVEREND OVEREND	
	03/28/2001		1000063070	1.54		OVEREND OVEREND	
	03/28/2001		1000063070	14.56		OVEREND OVEREND	
	03/28/2001		1000063500	4.14		OVEREND OVEREND	
	03/28/2001		1000063502	4.14		OVEREND OVEREND	
	03/28/2001		1000063504	4.15		OVEREND OVEREND	
	03/28/2001		1000063070	4.15		OVEREND OVEREND	
	03/28/2001		1000063500	1.54		OVEREND OVEREND	
	03/28/2001		1000063502	1.54		OVEREND OVEREND	
	03/28/2001		1000063504	1.54		OVEREND OVEREND	
	04/27/2001		1501286530	1,750.00		OVEREND OVEREND	
	04/27/2001		1501286532	350.00		OVEREND OVEREND	
	04/28/2001		1600064546	57.22		OVEREND OVEREND	
	03/28/2001		1000063500	45.32		OVEREND OVEREND	PLANT INO PLANT INOI
	03/28/2001		1000063502	45.32		OVEREND OVEREND	PLANT INO PLANT INOI
	03/28/2001		1000063504	46.20		OVEREND OVEREND	PLANT INO PLANT INOI
	03/28/2001		1000063070	46.20		OVEREND OVEREND	OVEREND OVEREND
	03/28/2001		1000063500	1.75		OVEREND OVEREND	

Baculus Incorporated
 Accounting Documents for Projects
 Postings Between 01/29/2001 and 04/28/2001
 Company Code 0106 Plant 1042

Project / Element	Project Description	FI Doc #	CO Doc #	Amount	P.O. #	Document Text	Vendor Name
	03/28/2001		1600060643	133.27			
	03/28/2001		900141710	0.34		FR3099SNRFSalury Ben	
	03/28/2001		900141710	0.83		FR3099SNRFSalury Ben	
	03/28/2001		900141710	8.48		FR3099SNRFSalury Ben	
	03/28/2001		900141710	10.93		FR3099SNRFSalury Ben	
	03/28/2001		900141710	3.20		FR3099SNRFSalury Ben	
	03/28/2001		900141710	0.82		FR3099SNRFSalury Ben	
	03/28/2001		900141710	0.05		FR3099SNRFSalury Ben	
	03/28/2001		1501205660	605.50		FR3099SNRFSalury Ben	
	03/28/2001		1000063504	4.88		OVERHEAD	
	03/28/2001		1000063070	4.88		OVERHEAD	
	03/28/2001		1000063500	2.75		OVERHEAD	
	03/28/2001		1000063502	2.75		OVERHEAD	
	03/28/2001		1000063504	2.78		OVERHEAD	
	03/28/2001		1000063070	2.78		OVERHEAD	
	03/28/2001		1000063500	1.64		OVERHEAD	
	03/28/2001		1000063502	1.64		OVERHEAD	
	03/28/2001		1000063502	4.85		OVERHEAD	
	03/28/2001		1000063504	1.75		OVERHEAD	
	03/28/2001		1000063070	1.75		OVERHEAD	
	03/28/2001		1000063500	4.92		OVERHEAD	
	03/28/2001		1000063502	4.92		OVERHEAD	
	03/28/2001		1000063504	4.92		OVERHEAD	
	03/28/2001		1000063070	4.92		OVERHEAD	
	03/28/2001		1000063500	4.85		OVERHEAD	

CERTIFIED MAIL – RETURN RECEIPT REQUESTED
CERT. # 7000 0520 0024 6195 1462



May 21, 2001

Chief, Environmental Compliance and Enforcement Division
Office of Pollution Control
Post Office Box 10385
Jackson, Mississippi 39289

Dear Sir:

Re: Agreed Order No. 4179 00

This serves as the SEP Completion Report as required by Section 4.A of the Agreed Order. The report is structured according to the itemized listing in the Agreed Order.

1. *A detailed description of the SEP's, as implemented:*

The Kymene® Agitator SEP involved the installation of a mechanical agitator in product storage tank K-160, for the purpose of odor reduction. Previous mixing in the tank was done by bubbling air into the bottom of the tank, which resulted in low levels of non-regulated emissions, which were also a potential source of odor. Mechanical agitation of the tank has eliminated these emissions. This project was completed on 4/28/01.

The Tempyrox Oven SEP involved the installation of a Tempyrox Oven designed to thermally clean laboratory glassware for the purpose of eliminating the use of cleaning solvents. This oven was installed in our control laboratory washroom. The oven installation replaced a solvent soaking sink and a solvent dishwasher previously used to clean laboratory glassware. This project was completed on 4/28/01.

2. *A description of any problems encountered with the implementation of the SEP's and the solutions thereto:*

No implementation problems were encountered in either of the SEP's.

3. *Itemized costs, documented by copies of purchase orders and receipts or canceled checks or other evidence of expenses:*

The Kymene® Agitator SEP costs are detailed in Attachment A, which includes the following:

- A) Summary of project charges associated with the SEP project.
- B) Project authorization transmittal for project # 1042-068.
- C) Purchase order # 4500380529 for the agitator.
- D) Agitator specification sheet for purchase order # 4500380529.
- E) Storeroom receiving invoice number 242-875415. — 12301
- F) Purchase order # 4500396231 for contractor installation. — 4543
- G) Billing for contractor services.

The Tempyrox Oven SEP costs are detailed in Attachment B, which includes the following.

- A) Summary of project charges associated with the SEP project.
- B) Project authorization transmittal for project # 1042-072.
- C) Purchase order # 4500425789 for the oven.
- D) Tempyrox packing slip.
- E) Storeroom receiving invoice number 775-979212. 4301

4. *Certification, signed by a responsible corporate official or Hercules' legal counsel, that Hercules has fully implemented the SEP's pursuant to the provisions of this Agreed Order; and*

Hercules has fully implemented the Kymene® Agitator SEP.

Hercules has fully implemented the Tempyrox Oven SEP.

A signed certification statement is enclosed as Attachment C.

5. *A description of the environmental and public health benefits resulting from the implementation of the SEP's.*

The Kymene® Agitator SEP resulted in the elimination of odors and non-regulated emissions.

SEP Completion Report
May 21, 2001
Page 3

The Tempyrox Oven SEP resulted in the elimination of approximately 2,000 lbs of conventional solvents being used in a solvent soaking sink and a solvent dishwasher. The major solvent reduction was air emissions and odors. Other reduction resulted from the elimination of some spent solvent disposal.


The expenditures incurred for the implementation of the SEP's are \$25,580 plus \$17,820, totaling \$43,400. As per Section 3.A.2 of the Agreed Order, the remaining balance is due on or before the SEP's completion date.

Please find the enclosed check for this balance, \$13,800.

If you require additional information, please call Charles Jordan at 601-584-3360.

Very truly yours,

HERCULES INCORPORATED

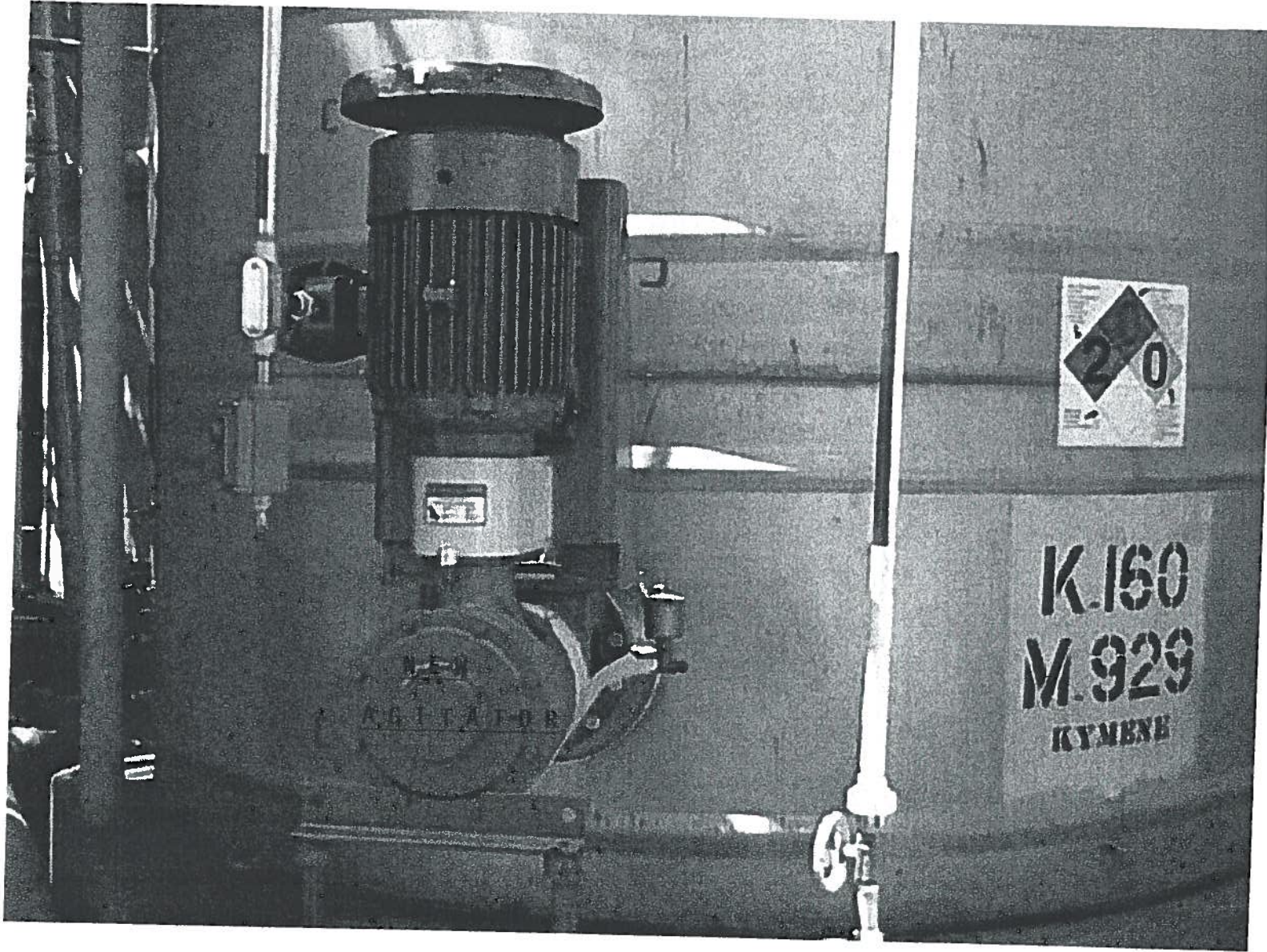


Walter D. Langhans
Plant Manager

WDL/vrf

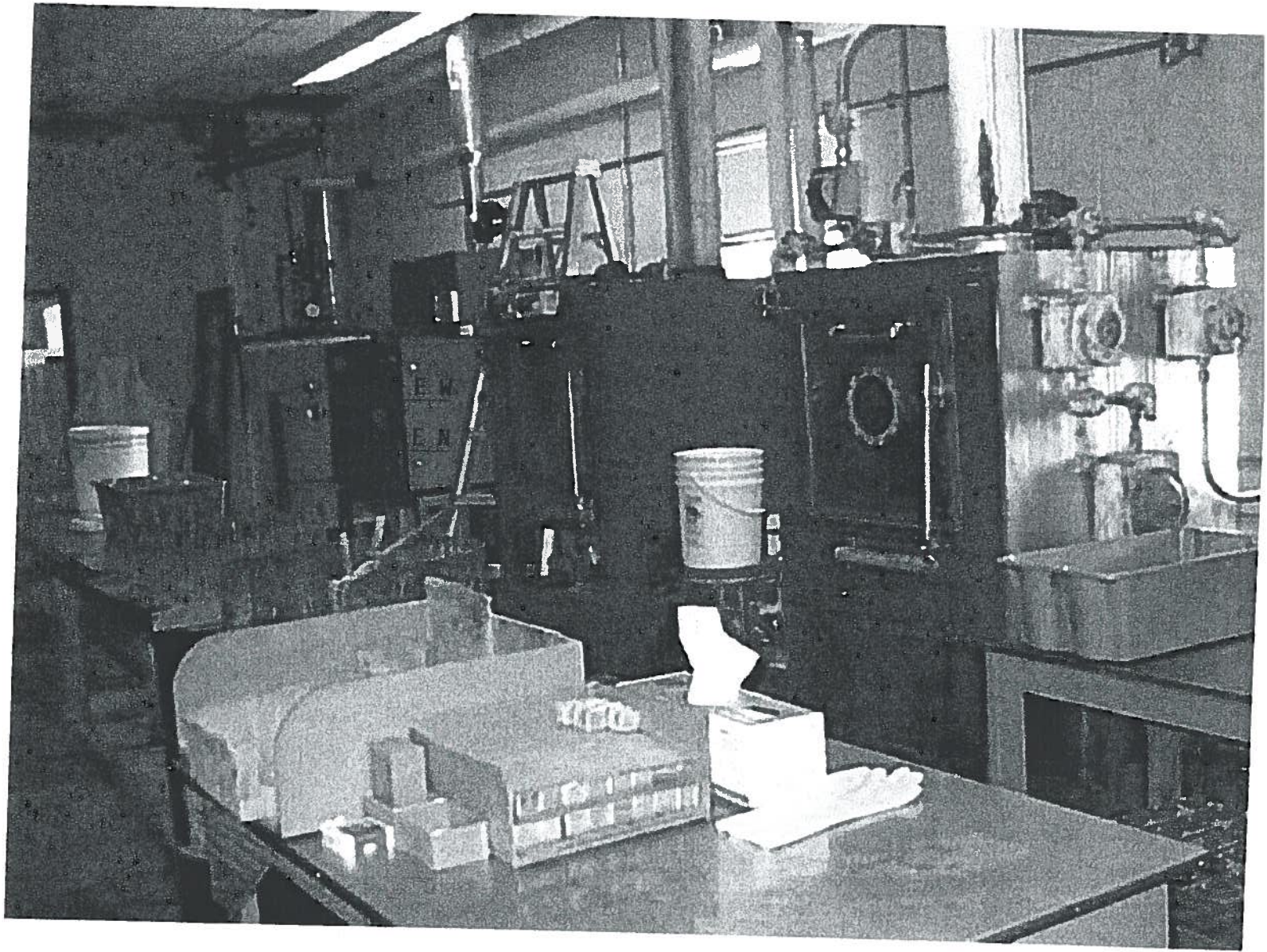
Enclosure:

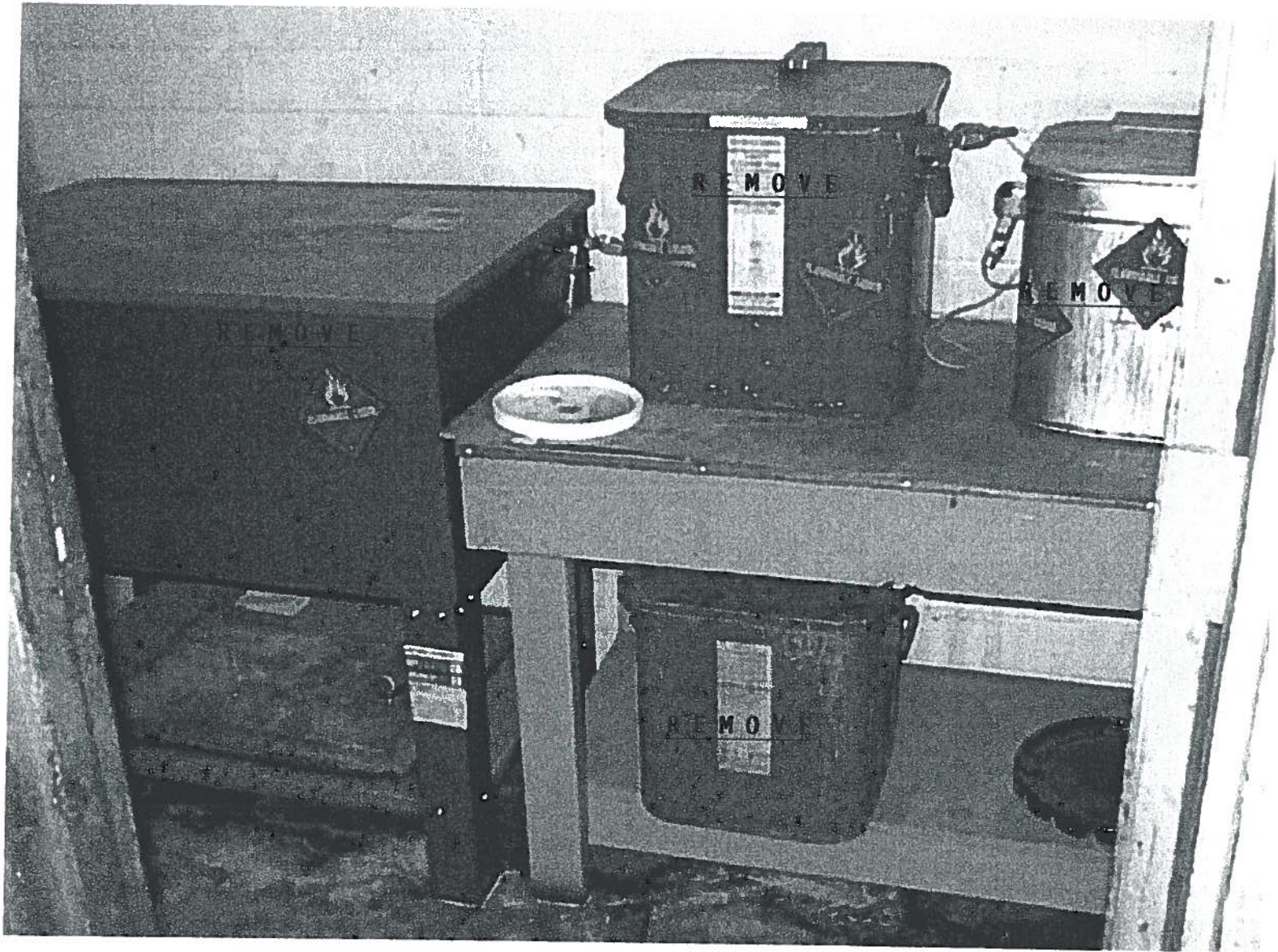
cc: G. M. Trovei, Hercules Plaza 7255SW
R. L. Williams, Hercules Plaza 8325SE

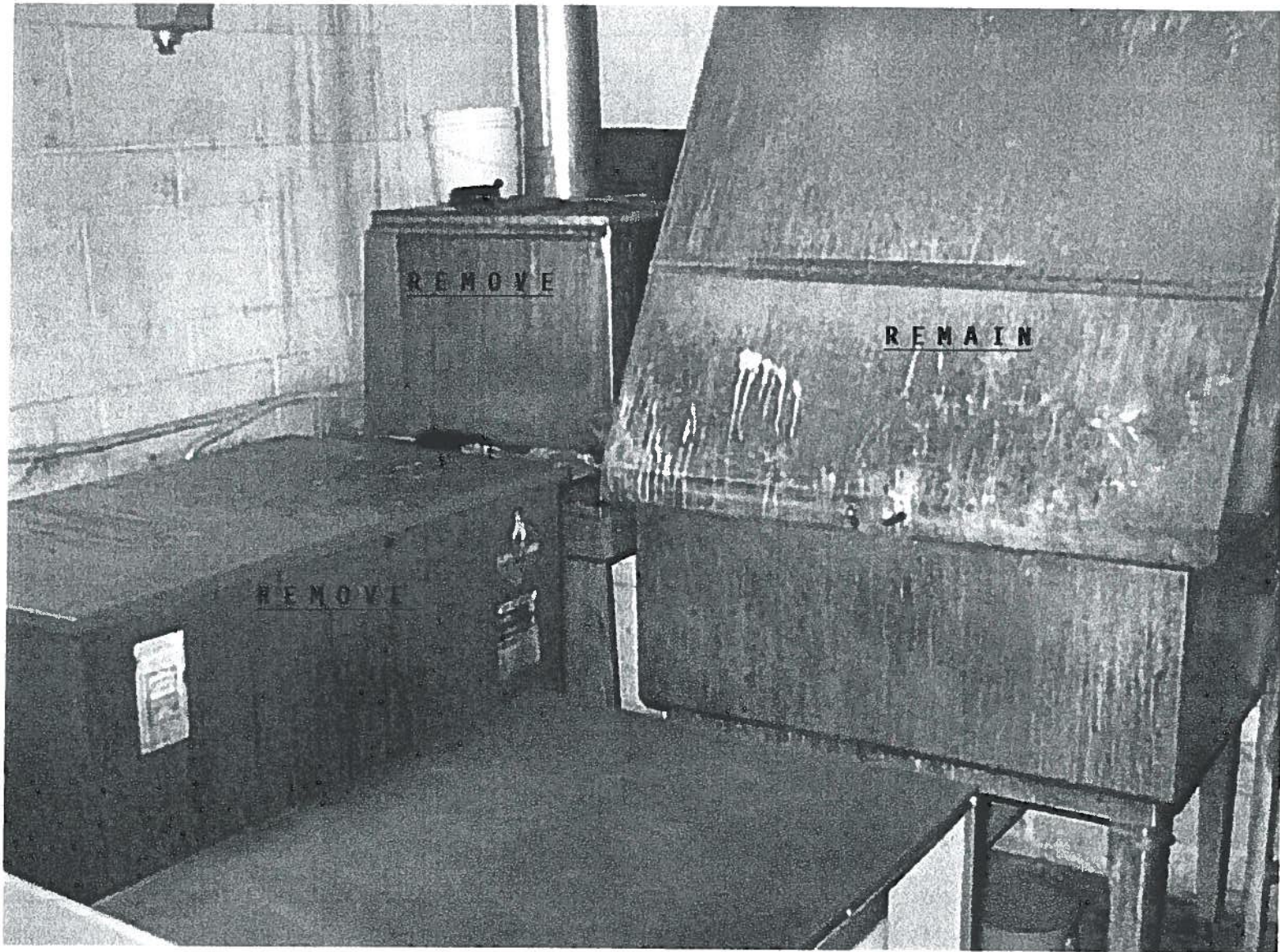


20

K-160
M-929
KUMENE







REMOVE

REMAIN

REMOVE

ATTACHMENT A

PROJECT 1042- 068		2001 PROJECT CHARGES												10-MAY-2001		
KYMENE 557H STORAGE TANK AGITATOR		PRIOR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD	TO DATE
ACCOUNT #	APPROVED \$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
2093-7 MATERIAL	800	0	0	0	1,954	0	0	0	0	0	0	0	0	0	1,954	1,954
LABOR	480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACCOUNT TOTAL	1,280	0	0	0	1,954	0	0	0	0	0	0	0	0	0	1,954	1,954
9114-5 MATERIAL	18,770	0	0	17,878	0	0	0	0	0	0	0	0	0	0	17,878	17,878
LABOR	790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACCOUNT TOTAL	19,560	0	0	17,878	0	0	0	0	0	0	0	0	0	0	17,878	17,878
9114-7 MATERIAL	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LABOR	1,440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACCOUNT TOTAL	2,040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9939-0 ESCALATN	610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9982-0 570	2,970	0	0	0	2,157	0	0	0	0	0	0	0	0	0	2,896	2,896
9985-0 CONTRNGCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9992-0 2,280	1,690	0	0	0	2,211	0	0	0	0	0	0	0	0	0	2,852	2,852
PROJECT TOTAL	31,000	0	0	17,878	3,334	4,368	0	0	0	0	0	0	0	0	25,580	25,580
		0	0	17878.07	3333.7	4368.12	0	0	0	0	0	0	0	0	25579.89	25579.89

PROJECT TRANSMITTAL

January 22, 2001

**TO: W. D. Langhans
Hercules Incorporated
Hattiesburg, MS**

**FROM: P.A. Reinbold
Controllers**

Title: Kymene 557H Storage Tank Agitator	Project No.: 1042-068
Plant: Hattiesburg	Date Authorized: 01/03/01
BUS/CTR: PPD	Amount: \$31,000.00

SEE SUMMARY ESTIMATE FOR LISTING OF ACCOUNTS

CHANGE OF BUSINESS AREA FROM RESINS TO PAPER

C.C.

D. H. Moore	Hattiesburg
* L. Tanner	Engineering - 11
* W.J. Kryspin	Engineering - 12
N. A. Holt	Engineering - 11
D. Clauss	Engineering - 11
D. R. Way	Engineering - 11
J. J. Fleming	Safety - 7
D. R. Peirson	Tax Division - 9
J. W. Ciach	Tax & Fixed Assets - 8
Fixed Assets	Controllers - 8



Hercules Incorporated Purchase Order

2/7

VENDOR
SHIP TO

DELIVERY DATE 31JAN2001	ORDER DATE 12DEC2000	PURCHASE ORDER NUMBER 4500380529	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
----------------------------	-------------------------	-------------------------------------	----------	-----------------	-----------------------------

Attention: JEFF GLASS R S ENGERT & COMPANY 2009 OLIVE ROAD PENSACOLA FL 32514 Phone: 800-345-1163	MAIL TWO COPIES OF YOUR INVOICE TO: HERCULES INCORPORATED HATTIESBURG PLANT 613 WEST 7TH STREET HATTIESBURG, MS 39401 X ATTN: ACCTS. PAYABLE
---	--

HATTIESBURG PLANT HERCULES INCORPORATED 613 WEST 7TH STREET HATTIESBURG MS 39401	VIA TERMS Net 45 Days From Invoice Date
---	---

Must Mark Material Number on All Packages. Mark All Paperwork with Purchase Order Number.

INCOTERMS FOB UPS / PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
------	-------------------	----------	-------	------	--------

PLEASE ORDER AS PER THE ABOVE PURCHASE ORDER NUMBER. FOR CHANGES OR QUESTIONS, CALL 601-584-3368 (VOICE MAIL) OR FAX 601-584-3206 ATTN: SHELIA JOHNSON / PLEASE RETURN FAX THE CONFIRMATION PAGE. *** NOTE *** THIS PURCHASE ORDER NUMBER IS "REQUIRED" FOR DELIVERY, INVOICING, AND INQUIRY.					
10	KYMENE STORAGE TANK AGITATOR	1 EA	11,850.00	1 EA	11,850.00
REF: Lightnin quotation #3-B-00-0084-L-R2, dated 12/8/2000, signed by Debi Rowland for Jeffrey J. Glass (faxed to Hercules on 12/8/2000). Lightnin mixer model 208-RSE-20 as generally illustrated in drawing L-16386 and as dimensioned in drawing DS-SE-111. Mixer will be provided with a 10"-150# mounting flange of steel faced with 316SS. The unit will be provided with a shaft that is 2.5" in diameter fabricated of 316SS rotating at 280 rpm and carrying a single 31" diameter Lightnin A312 impeller (drawing L-17244). The shaft will be sealed with a standard packed stuffing box as shown in drawing					

CHANGE TO NEW CHANGE CODE MUST BE!
 G/L: 6711700000
 WBS: 1042-068F9114-30200-5000
 ✓ DONE
 1-29-01
 (AS ITEM 20)

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.	REQUISITIONED BY: DOUG LOWERY
	ISSUED BY: <i>Shelia Johnson</i>
	BUYER: Shelia Johnson 601-584-3368
	AUTHORIZED BY:

DELIVERY DATE 31JAN2001	ORDER DATE 12DEC2000	PURCHASE ORDER NUMBER 4500380529	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
-----------------------------------	--------------------------------	--	----------	-----------------	-----------------------------

STOREROOM

Attention: JEFF GLASS
R S ENGERT & COMPANY
2009 OLIVE ROAD
PENSACOLA FL 32514

Phone: 800-345-1163

MAIL TWO COPIES OF YOUR INVOICE TO:

HERCULES INCORPORATED
HATTIESBURG PLANT
613 WEST 7TH STREET
HATTIESBURG, MS 39401

X
ATTN: ACCTS. PAYABLE

HATTIESBURG PLANT
HERCULES INCORPORATED
613 WEST 7TH STREET
HATTIESBURG MS 39401

VIA

TERMS Net 45 Days From Invoice Date

Must Mark Material Number on All Packages.

Mark All Paperwork with Purchase Order Number.

INCOTERMS **FOB** UPS / PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
------	-------------------	----------	-------	------	--------

L-16388. The mixer will be driven by a 20 hp explosion proof (Class I, Group C) motor suitable for a 230/460 volt, 60 Hertz, 3 phase circuit. The mixer will be provided with pipe legs for outboard support.

Vendor to furnish within seven (7) days after receipt of this order, three copies each of the following information pertinent to this equipment to Hercules Incorporated, 613 West 7th Street, Hattiesburg, MS 39401, Attn: Doug Lowery, Senior Staff Engineer.

- * Certified dimension sheets
- * Lubrication recommendations
- * Wiring diagrams
- * Parts list, including manufacturer's identification number, bearings, oil seals, "O" rings, and other individual parts (for interchangeability and maintenance purposes)
- * List of recommended spare parts, installation, operating, and maintenance instructions

Identify prints by title, size, capacity, etc. of equipment, Hercules purchase order number, item number, and equipment number.

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: **DOUG LOWERY**

ISSUED BY:

BUYER: **Shelia Johnson**
601-584-3368

AUTHORIZED BY:

Postal Address:		Cust ID: 146979		Delivery Address:	
HERCULES INC P O BOX 1937 W 7TH STREET HATTIESBURG, MS 39403				HERCULES INC ATTN: DOUG LAWERY 613 WEST 7TH STREET HATTIESBURG, MS 39401	
Purchase Order #: 4500380529				Date 12-19-2000	
TAG:					
LIGHTNIN Sales Order Number: 763191			LIGHTNIN Project Number: 239883		
QTY 1	Model 208RSES20 Serial #: R0123988301	Unit Size 208 Ratio .00 Unit of Measure English			
MOTOR OR DRIVE	Desc. /Hi.Eff./Sev.Dty. HP/Frame/RPM 20 HP/256T/1800 Supplied By LIGHTNIN	Volt/Hz/Ph /60/ Enclosure/SF FCXP/ Mounted By LIGHTNIN			
WETTED PARTS	Shaft Stn. Steel 316 Impeller Stn. Steel 316				
IN TANK SHAFT	Diameter 2.5 in Length From Mtg Base 26 in				
I M P	Impeller Diameter 31.00 in	Type A312	Blades 3	Hub Type	
	Nominal Speed 280.00 RPM Off Bottom				
SHAFT SEAL	Flg/Rating 10"/ANSI 150# Pressure/Temp. Seal Type Type 2 w/Shutoff/Comb50				
OPT EQUIP	Lubricator Spring Outboard Support Pipe Legs				
TANK DATA	Shape Cylindrical Dia/Size 132 in Mixer Mtg Vertical Off Center Top/Dim. ASME Dish/0 in Bot/Dim. Flat - Closed/0 in Coverplate By Coverplate Size/Angle 0/0/Left	Max. Opening Units/Tank Straight Side Overall Height Wall Insert By Wall Thickness		24.0000 1.0000 300 in 0.0000	

DATE 1/19/01	ORIGIN CR	CF REVENUE	ADVANCE	BEYOND	DESTINATION HRM	REFER TO THIS NUMBER 242-875415
-----------------	--------------	------------	---------	--------	--------------------	------------------------------------

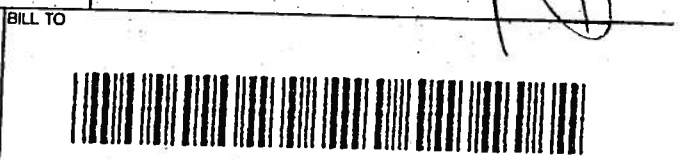
CONSIGNEE
HERCULES INC
ATTN DOUG LAWERY
613 W 7TH ST
HATTIESBURG, MS 39401

SHIPPER'S NUMBER
SN# P763191705B
PO# 4500390529

INVOICE NUMBER
242-875415

ROUTE (CARRIERS, PRO DATE & NO., JUNCTIONS)

SHIPPER
LIGHTNIN MIXTURES
135 MT READ BLVD
ROCHESTER, NY 14611



# PCS.	HM	DESCRIPTION OF ARTICLES AND MARKS	WEIGHT (LBS)	RATE	TOTAL CHARGES
1		PARTS 133390 S3 CL95	1480		
1		FUEL SURCHARGE 4.00% JFU-8			
		TOTAL	1480		PPD
OSD CONTACT 716-436-5550 JOHN HARTER/SHIPPING 100% SATISFACTION IS OUR GOAL! CALL US FIRST AT (601) 268-2727					

SHRINK WRAP INTACT? YES NO

INSIDE DEL CONSTRUCTION SITE REDEL SORT # PCS LIFT GATE


OTHER _____ DETENTION TIME: START _____ END _____

DUNS # 04-411-0690

LEAVE THIS COPY WITH CONSIGNEE *Samir B...*

12301

CONSOLIDATED FREIGHTWAYS CORP. OF ORL DBA
 CONSOLIDATED FREIGHTWAYS
 P.O. Box 4438
 Portland, Oregon 97208-4438



VENDOR
SHIP TO

DELIVERY DATE	ORDER DATE 18JAN2001	PURCHASE ORDER NUMBER 4500396231	ALT. NO. 002	ALTERATION DATE 23 FEB 2001	OUTLINE AGREEMENT REFERENCE
---------------	-------------------------	-------------------------------------	-----------------	--------------------------------	-----------------------------

Attention: BEN LIGAMERI INDUSTRIAL SERVICES OF MOBILE 5975 RANGELINE ROAD THEODORE AL 36582 Phone: 334 443 7033	MAIL TWO COPIES OF YOUR INVOICE TO: HERCULES INCORPORATED HATTIESBURG PLANT 613 WEST 7TH STREET HATTIESBURG, MS 39401 X ATTN: ACCTS. PAYABLE
---	--

HATTIESBURG PLANT HERCULES INCORPORATED 613 WEST 7TH STREET HATTIESBURG MS 39401	VIA TERMS Net 45 days from receipt of invoice
---	--

Must Mark Material Number on All Packages.

Mark All Paperwork with Purchase Order Number.

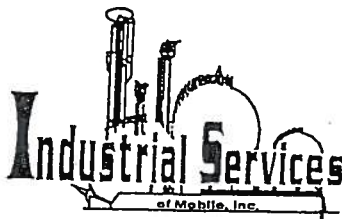
INCOTERMS ON SITE

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
	ALT 002: ADD LINE ITEM 30 / ADDITIONAL WORK				
	ALT. 001: CHANGE TO PROJECT CHARGE CODE; LINE 20 DELETE LINE 20 / TEMP. CHARGE CODE				
20	AGITATOR NOZZLE INSTALLATION				
	Material No.	4,160		1.00 / 1 PC	4,160.00 ✓
	Delivery Date: 29JAN2001				
30	ADDITIONAL T&M WORK TO INSTALL AGITATOR				
	Material No.	383.49		1.00 / 1 PC	383.49 ✓
	Delivery Date: 23FEB2001				
	Additional time and material work to install new agitator.				

REC'D 2-23-01
DOC # 50754480
djh

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: DOUG LOWERY	
ISSUED BY:	
BUYER: Shelia Johnson 601-584-3368	SHEILA C. JOHNSON <i>Shelia C. Johnson</i>
AUTHORIZED BY:	



Safety ◊ Quality ◊ Performance

5975 Rangeline Road ☒ Theodore, Alabama 36582
Telephone: 334-443-7033 ☒ Fax: 334-443-7454

Industrial Construction & Maintenance Service

INVOICE N^o 15368

BILLING NO. 01

DATE 2/22/01

JOB NO. 379

P.O. NO. 4500396231

*COPY
BOUG LOWERY*

Hercules Incorporated

Hattiesburg Plant

613 West Seventh Street

Hattiesburg, MS 39401

ATTENTION: ACCOUNTS PAYABLE

TO INVOICE YOU FOR THE FOLLOWING Completion of work performed on the above

P. O. as per attached.

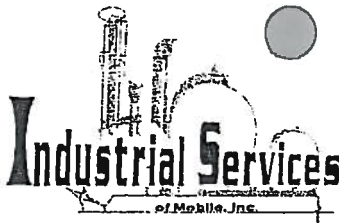
TOTAL NET AMOUNT DUE \$ 4,543.49

TERMS: NET 10 DAYS

BY: Office Manager

INDUSTRIAL SERVICES REPRESENTATIVE

TITLE: *[Signature]*



Safety ♦ Quality ♦ Performance

5975 Rangeline Road • Theodore, Alabama 36582
Telephone: 334-443-7033 ☎ Fax: 334-443-7454

Industrial Construction & Maintenance Service

February 20, 2001

Hercules Incorporated
Hattiesburg Plant
613 West Seventh Street
Hattiesburg, MS 39401

Annt: Account Payable

RE: Hercules P. O. No. - 4500396231 Industrial Services of Mobile, Inc. - Job No. 379

ISOM PHASE 700

Furnished Labor, Equipment, Materials and Supplies for Installation of 10" 150 # Flanged Nozzle with Backing Plate and Gussets for Agitator in Kymene Storage Tank no. T-160

LUMP SUM AMOUNT \$ 4,160.00

ISOM PHASE 702 (Authorized Additional Work)

Furnished Labor and Material to Install New Agitator per T & M Rates on File
Labor/Equipment

See Attached \$ 375.50

Material

Dixie Supply

Drop-in Anchors \$ 7.26

Mark-Up @ 10% .73

\$ 383.49

\$ 383.49

TOTAL AMOUNT DUE THIS INVOICE

\$ 4,543.49

ATTACHMENT B

PROJECT 1042- 072		2001 PROJECT CHARGES												10-MAY-2001		
ACCOUNT #	APPROVED \$	PRIOR \$	JAN \$	FEB \$	MAR \$	APR \$	MAY \$	JUN \$	JUL \$	AUG \$	SEP \$	OCT \$	NOV \$	DEC \$	YTD \$	TO DATE \$
8100-5	14,700	0	0	0	0	15,671	0	0	0	0	0	0	0	0	15,671	15,671
	LABOR	700	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACCOUNT TOTAL	15,400	0	0	0	15,671	0	0	0	0	0	0	0	0	15,671	15,671
8100-7	3,000	0	0	0	0	352	0	0	0	0	0	0	0	0	352	352
	MATERIAL	1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LABOR	4,000	0	0	0	352	0	0	0	0	0	0	0	0	352	352
	ACCOUNT TOTAL	4,000	0	0	0	352	0	0	0	0	0	0	0	0	352	352
9939-0	1,240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ESCALATN	1,240	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9982-0	210	0	0	0	0	1,798	0	0	0	0	0	0	0	0	1,798	1,798
	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9985-0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONTNGCY	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9992-0	2,740	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2,740	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PROJECT TOTAL	30,300	0	0	0	17,820.17	0	0	0	0	0	0	0	0	17,820.17	17,820.17
		30300	0	0	0	17820.17	0	0	0	0	0	0	0	0	17820.17	17820.17

(7)

PROJECT TRANSMITTAL

March 20, 2001

**TO: W. D. Langhans
Hercules Incorporated
Hattiesburg, MS****FROM: P.A. Reinbold
Controllers**

Title: Tempyrox Oven	Project No.: 1042-072
Plant: Hattiesburg	Date Authorized: 02/06/01
BUS/CTR: PPD	Amount: \$30,300.00

SEE SUMMARY ESTIMATE FOR LISTING OF ACCOUNTS**CHANGE OF BUSINESS AREA FROM RESINS TO PAPER****C.C.**

D. H. Moore	Hattiesburg
* L. Tanner	Engineering - 11
* W.J. Kryspin	Engineering - 12
N. A. Holt	Engineering - 11
D. Clauss	Engineering - 11
D. R. Way	Engineering - 11
J. J. Fleming	Safety - 7
D. R. Peirson	Tax Division - 9
J. W. Ciach	Tax & Fixed Assets - 8
Fixed Assets	Controllers - 8



Hercules Incorporated Purchase Order

DELIVERY DATE 09APR2001	ORDER DATE 21MAR2001	PURCHASE ORDER NUMBER 4500425789	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
----------------------------	-------------------------	-------------------------------------	----------	-----------------	-----------------------------

VENDOR SHIP TO

Attention: SALES TEMPYROX COMPANY INC 11055 DENNIS ROAD 4 DALLAS TX 75244-3650 Phone: 800 584 8010	MAIL TWO COPIES OF YOUR INVOICE TO: HERCULES INCORPORATED HATTIESBURG PLANT 613 WEST 7TH STREET HATTIESBURG, MS 39401 X ATTN: ACCTS. PAYABLE
--	--

HATTIESBURG PLANT HERCULES INCORPORATED 613 WEST 7TH STREET HATTIESBURG MS 39401	VIA TERMS Net 45 days from receipt of invoice
---	---

Must Mark Material Number on All Packages. Mark All Paperwork with Purchase Order Number.

INCOTERMS PPD PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
PLEASE ORDER AS PER THE ABOVE PURCHASE ORDER NUMBER. FOR CHANGES OR QUESTIONS, CALL 601-584-3368 (VOICE MAIL) OR FAX 601-584-3206 ATTN: SHELIA JOHNSON / PLEASE RETURN FAX THE CONFIRMATION PAGE. *** NOTE *** THIS PURCHASE ORDER NUMBER IS "REQUIRED" FOR DELIVERY, INVOICING, AND INQUIRY.					
10	Model: 5AB Pyro-clean Tempyrox Oven Material No.	1	13,475.00	1 PC	13,475.00
	With Electri-Cat Oxidizer				
20	Nitrogen Purge for 5AB Material No.	1	500.00	1 PC	500.00
30	Stand With Castors for 5AB Material No.	1	625.00	1 PC	625.00

4/2/01
JS
Doc - 50799255

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.	REQUISITIONED BY: DAN MOORE	
	ISSUED BY:	
	BUYER: Shelia Johnson 601-584-3368	SHELIA C. JOHNSON
	AUTHORIZED BY:	



Hercules Incorporated Purchase Order

DELIVERY DATE 09APR2001	ORDER DATE 21MAR2001	PURCHASE ORDER NUMBER 4500425789	ALT. NO.	ALTERATION DATE	OUTLINE AGREEMENT REFERENCE
-----------------------------------	--------------------------------	--	----------	-----------------	-----------------------------

VENDOR SHIP TO

Attention: SALES TEMPYROX COMPANY INC 11055 DENNIS ROAD 4 DALLAS TX 75244-3650 Phone: 800 584 8010	MAIL TWO COPIES OF YOUR INVOICE TO: HERCULES INCORPORATED HATTIESBURG PLANT 613 WEST 7TH STREET HATTIESBURG, MS 39401 X ATTN: ACCTS. PAYABLE
--	--

HATTIESBURG PLANT HERCULES INCORPORATED 613 WEST 7TH STREET HATTIESBURG MS 39401	VIA TERMS Net 45 days from receipt of invoice
---	---

Must Mark Material Number on All Packages. Mark All Paperwork with Purchase Order Number.

INCOTERMS **PPD** PREPAID & ADD

ITEM	HERCULES MATERIAL	QUANTITY	PRICE	UNIT	AMOUNT
40	Freight Material No.	1 PC	194.00 / 1 PC		194.00
Total Net Value Excl. Tax USD					14,794.00

THIS ORDER EXPRESSLY LIMITS ACCEPTANCE TO THE TERMS AND CONDITIONS STATED HEREIN INCLUDING THOSE PRINTED ON THE LAST PAGE OF THIS ORDER. ANY PROVISIONS TO THE CONTRARY YOU HAVE PROPOSED OR MAY PROPOSE ARE EXPRESSLY REJECTED. TO THE EXTENT NECESSARY TO GIVE EFFECT TO THESE TERMS AND CONDITIONS, THIS PURCHASE ORDER CONSTITUTES A COUNTEROFFER TO ANY OFFER YOU HAVE PROPOSED OR MAY PROPOSE.

REQUISITIONED BY: DAN MOORE	
ISSUED BY:	
BUYER: Shelia Johnson 601-584-3368	<small>SHELIA C. JOHNSON</small> <i>Shelia C. Johnson</i>
AUTHORIZED BY:	

CONSOLIDATED FREIGHTWAYS

CFWY

COPY

REFER TO THIS NUMBER

NUMBER 5-0144	DATE 3/30/85	ORIGIN DLS	CF REVENUE	ADVANCE	BEYOND	DESTINATION HEM	775-979212
------------------	-----------------	---------------	------------	---------	--------	--------------------	------------

CONSIGNEE HERCULES INC HATTIESBURG PLANT 413 WEST 7TH ST HATTIESBURG, MS 39401		CFY AR#	SHIPPER'S NUMBER SN# NONE PO# 4500425789
SHIPPER TEMPYROX CO INC 11055 DENNIS RD #4 DALLAS, TX 75229		INVOICE NUMBER : C 775-979212	ROUTE (CARRIERS, PRO DATE & NO., JUNCTIONS)



# PCS.	HM	DESCRIPTION OF ARTICLES AND MARKS	WEIGHT (LBS)	RATE	TOTAL CHARGES
1		QUEENS 26760 S1 CL 85	550		
1		STANDS 178690 SUB 8 CL85	150		
		FUEL SURCHARGE 3.00% J04-33			
2		TOTAL	700		PPD
		MK 2C			
100% SATISFACTION IS OUR GOAL! CALL US FIRST AT (601) 268-2727					

SHRINK WRAP INTACT? YES NO INSIDE DEL CONSTRUCTION SITE REDEL SORT # PCS LIFT GATE DETENTION TIME: START _____ END _____

DUNS # 04-11-0890

LEAVE THIS COPY WITH CONSIGNEE

Sam Boone 43 2001 *Ran by Ken* 4301

CONSOLIDATED FREIGHTWAYS CORP. OF DEL. DBA
CONSOLIDATED FREIGHTWAYS
P.O. Box 4488
Portland, Oregon 97208-4488



ATTACTMENT C
Agreed Order No 4179 00
Item 4.A.4: Certification by Responsible Official

As a Responsible Official for Hercules Incorporated, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the SEP completion report are true, accurate, and complete, and that the SEP's have been fully implemented as per the provisions of the Agreed Order.

Responsible Official Signature:



Walter D. Langhans
Plant Manager
Hercules Incorporated
Hattiesburg, Ms. Plant