

Bayer CropScience



John A. Benedict, Director  
WV Department of Environmental Protection  
Division of Air Quality  
601 57th Street, SE  
Charleston, West Virginia 25304

**HAND DELIVERED**

Re: Bayer CropScience Institute Site, Institute, West Virginia  
Group 2 of 8 Title V Renewal Permit Application

June 14, 2010

Bayer CropScience  
Institute Site  
P. O. Box 1005  
Charleston, WV 25112

Dear Director Benedict:

Tel. 304 767 6161  
Fax 304 767 6879

Enclosed are four CDs (two marked confidential and two marked redacted) of Bayer CropScience's Group 2 of 8 Title V Renewal Permit Application and a letter justifying the reasons for information held confidential in this permit application.

If you have any questions concerning this Update, please contact Mr. Brian Schmidt of my staff at (304) 767-6161.

Sincerely,

Steve Hedrick  
VP, Head Institute Industrial Park

Enclosures

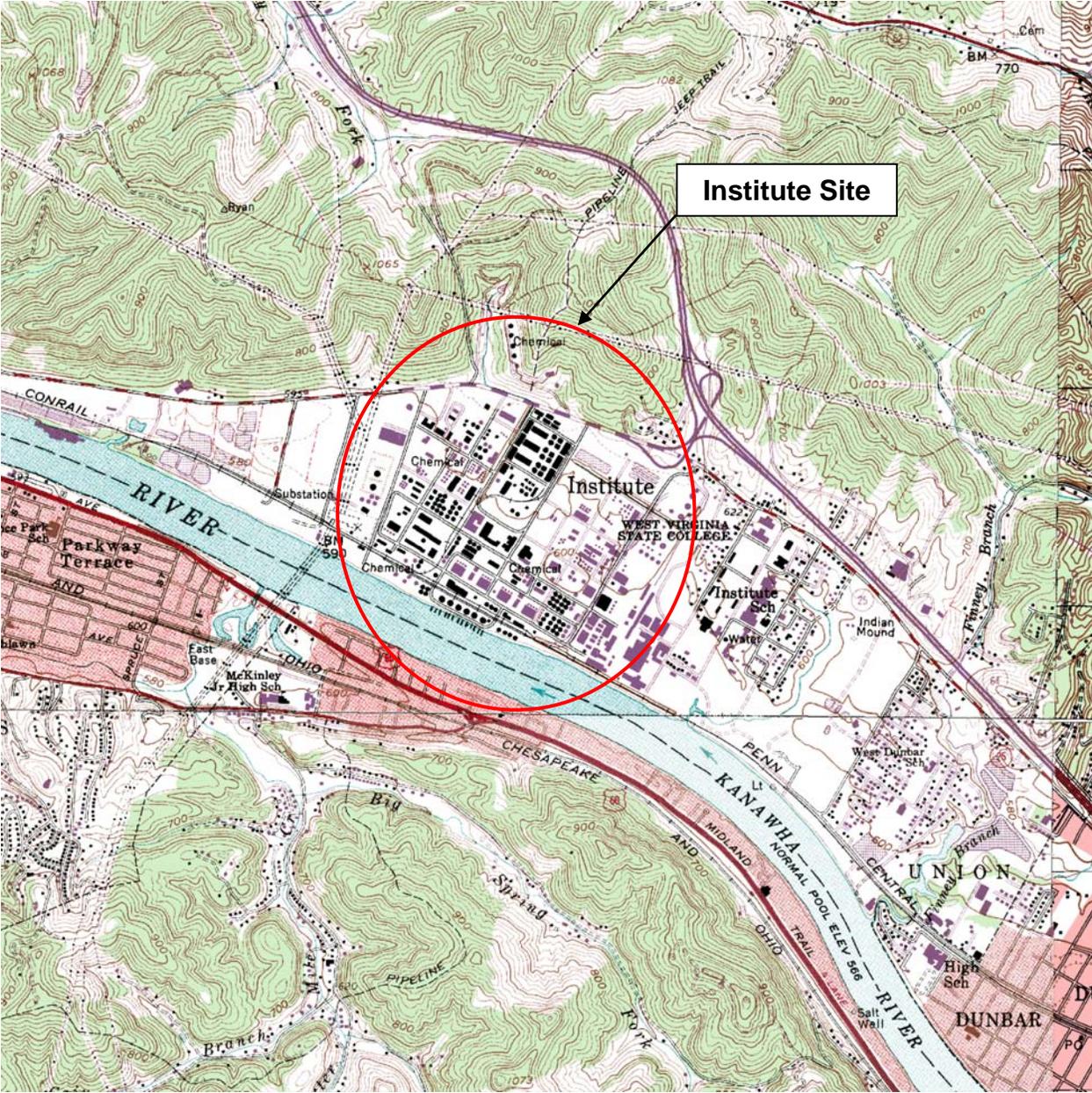
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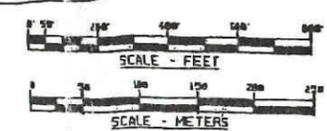
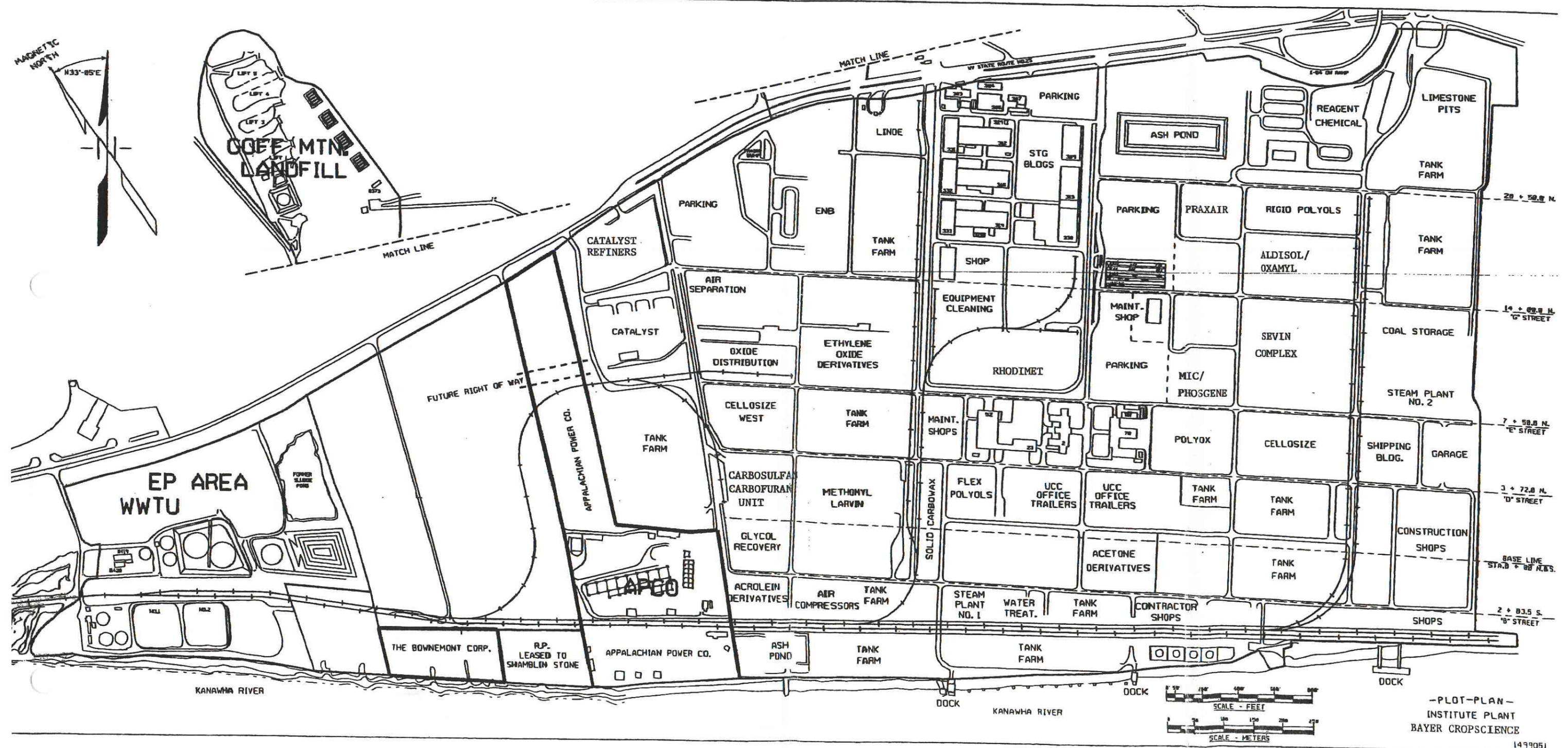
**TITLE V PERMIT APPLICATION CHECKLIST  
FOR ADMINISTRATIVE COMPLETENESS**

<p>A complete application is demonstrated when all of the information required below is properly prepared, completed and attached. The items listed below are required information which must be submitted with a Title V permit application. Any submittal will be considered incomplete if the required information is not included.*</p>	
<input checked="" type="checkbox"/>	Two signed copies of the application (at least one <u>must</u> contain the original “ <i>Certification</i> ” page signed and dated in blue ink)
<input checked="" type="checkbox"/>	Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)
<input checked="" type="checkbox"/>	*Table of Contents (needs to be included but not for administrative completeness)
<input checked="" type="checkbox"/>	Facility information
<input checked="" type="checkbox"/>	Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios
<input checked="" type="checkbox"/>	Area map showing plant location
<input checked="" type="checkbox"/>	Plot plan showing buildings and process areas
<input checked="" type="checkbox"/>	Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships
<input checked="" type="checkbox"/>	Identification of all applicable requirements with a description of the compliance status, the methods used for demonstrating compliance, and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the source is not in compliance
<input checked="" type="checkbox"/>	Listing of all active permits and consent orders (if applicable)
<input checked="" type="checkbox"/>	Facility-wide emissions summary
<input checked="" type="checkbox"/>	Identification of Insignificant Activities
<input checked="" type="checkbox"/>	ATTACHMENT D - Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities
<input checked="" type="checkbox"/>	ATTACHMENT E - Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D) and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the emission unit is not in compliance
<input checked="" type="checkbox"/>	ATTACHMENT G - Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)
<input checked="" type="checkbox"/>	ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each control device for which the “Is the device subject to CAM?” question is answered “Yes” on the Air Pollution Control Device Form (ATTACHMENT G)
<input checked="" type="checkbox"/>	General Application Forms signed by a Responsible Official
<input checked="" type="checkbox"/>	Confidential Information submitted in accordance with 45CSR31

# Attachment A Area Map



# Attachment B - Plot Plan



-PLOT-PLAN-  
INSTITUTE PLANT  
BAYER CROPSCIENCE

### ATTACHMENT D - Emission Units Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<b>Rhodimet</b>					
R/C Depress	295K	Railcar Depressurization	1993	N/A	N/A
D-1110	295A	MTPA Storage Tank	1993	> 40,000 gal	D-1190
D-1120	295A	MTPA Storage Tank	1993	> 40,000 gal	D-1190
D-1150	295A	MTPA Unloading Surge Tank	1993	< 20,000 gal	D-1190
D-1210	295B	Sulfuric Acid Storage Tank	1993	> 20,000 gal	N/A
D-1410	295D	Ammonia Solution Tank	1993	< 20,000 gal	D-1419
C-2110R	NA	Catalyst Feed Tank	1993	<20,000 gal	NA
R-2130	290F 290G	Cyanohydrine Reactor	1993	N/A	Y-8370 or Y-8350, C-8380
D-3110	290F 290G	Cyanohydrine Tank	1993	> 20,000 gal	Y-8370 or Y-8350, C-8380
R-3210 R-3220 R-3230 R-3240	290F 290G	Hydrolysis Reactors	1993	N/A	Y-8370 or Y-8350, C-8380
D-3310	290F 290G	Hydrolyzed Buffer Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-3320	290F 290G	Neutralization Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
Y-3410	290F 290G	Decanter	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-3415	290F 290G	Organic Phase Receiver	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
E-4110	290F 290G	Thin Film Evaporator	1993	N/A	Y-8370 or Y-8350, C-8380
C-4114	290F 290G	Concentrated Rhodimet Pot	1993	70 gal	Y-8370 or Y-8350, C-8380
E-4120	290F 290G	Thin Film Evaporator	1993	N/A	Y-8370 or Y-8350, C-8380
C-4124	290F 290G	Concentrated Rhodimet Pot	1993	70 gal	Y-8370 or Y-8350, C-8380

### ATTACHMENT D - Emission Units Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Y-4210	290F 290G	Rotary Pressure Filter	1993	N/A	Y-8370 or Y-8350, C-8380
D-4230	290F 290G	Filtered Rhodimet Receiver	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-4240	290F 290G	Cake Redissolution Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-4310	290F 290G	Rhodimet Day Tank	1993	>20,000 gal	Y-8370 or Y-8350, C-8380
D-4320	290F 290G	Rhodimet Day Tank	1993	>20,000 gal	Y-8370 or Y-8350, C-8380
D-4330	290F 290G	Rhodimet Storage Tank	1993	>40,000 gal	Y-8370 or Y-8350, C-8380
D-4340	290F 290G	Rhodimet Storage Tank	1997	>40,000 gal	Y-8370 or Y-8350, C-8380
D-5110	290F 290G	Sulfate Solution Buffer Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
C-5210	290F 290G	Ammonium Sulfate Crystallizer	1993	N/A	Y-8370 or Y-8350, C-8380
Y-5230 Y-5240	290F 290G	Crystal Thickener/Centrifuge	1993	N/A	Y-8370 or Y-8350, C-8380
D-5245	290F 290G	Mother Liquor Receiver	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
Y-5310	290B	Ammonium Sulfate Dryer/Separator	1993	N/A	C-5330
Y-5320	290B	Ammonium Sulfate Cooler	1993	N/A	<b>C-5330</b>
D-5510	295E	Ammonium Sulfate Silo	1993	>20,000 gal	Y-5515
D-5520	295F	Ammonium Sulfate Silo	1993	>20,000 gal	Y-5525
D-8190	290F 290G	Pretreated Wastewater Sump	1993	N/A	Y-8370 or Y-8350, C-8380
Y-8391	290F 290G	PV1 KO Pot	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
Y-8393	290F 290G	PV1 KO Pot	1993	<20,000 gal	Y-8370 or Y-8350, C-8380

### ATTACHMENT D - Emission Units Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Y-8394	290F 290G	PV3 KO Pot	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-9120	295G	Chilled Water Tank	1993	<20,000 gal	N/A
D-9140 D-9148	290F 290G	Water Ring Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-9220	290F 290G	Unit Water Tank	1993	N/A	Y-8370 or Y-8350, C-8380
D-9310 E-9316	295H	Steam Condensate Flash Tank	1993	<20,000 gal	N/A
D-9320	290H	Betz Tank	1993	<20,000 gal	N/A
D-9330	290H	Betz Tank	1993	<20,000 gal	N/A
D-8160	290F 290G	Stripped Water Receiver	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-8170	290F 290G	Treatment	1993	N/A	Y-8370 or Y-8350, C-8380
D-8110	290F 290G	Process Area Sump	1993	N/A	Y-8370 or Y-8350, C-8380
D-8120	290F 290G	Waste Water Holding Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-8124	290F 290G	Waste Water Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-8130	290F 290G	Effluent Tank	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
C-8140	290F 290G	HCN Stripping Column	1993	N/A	Y-8370 or Y-8350, C-8380
<b>HCN</b>					
C-1310	295C	Ammonia Storage Tank	1993	> 20,000 gal	C-1318
C-1320	295C	Ammonia Storage Tank	1998	> 20,000 gal	C-1318
E-7130	290F 290G	Gas Inlet Preheater	1993	N/A	Y-8370 or Y-8350, C-8380
E-1430	290F 290G	Vaporizer	1993	N/A	Y-8370 or Y-8350, C-8380

### ATTACHMENT D - Emission Units Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
C-7140	290F 290G	HCN Reactor	1993	N/A	Y-8370 or Y-8350, C-8380
D-7144	N/A	Hydrogen Saturation Tank	1993	N/A	N/A
C-7150	290F 290G	Waste Heat Boiler	1993	N/A	Y-8370 or Y-8350, C-8380
C-7210	290F 290G	Ammonia Absorber Column	1993	N/A	Y-8370 or Y-8350, C-8380
C-7310	290F 290G	Gas Cooler Column	1993	N/A	Y-8370 or Y-8350, C-8380
C-7320	290F 290G	HCN Absorber Column	1993	N/A	Y-8370 or Y-8350, C-8380
C-7410	290F 290G	HCN Distillation Column	1993	N/A	Y-8370 or Y-8350, C-8380
C-7420	290F 290G	HCN Reflux Drum	1993	<20,000 gal	Y-8370 or Y-8350, C-8380
D-8150	290F 290G	Process Area Sump (section 7000)	1993	N/A	Y-8370 or Y-8350, C-8380

#### Control Device

Y-8350	290E	Thermal Oxidizer	1992	50,000 lbs/hr	C-8380
Y-8370	290F	Flare	1992	42,000 lbs/hr	N/A
C-8380	290G	Caustic Scrubber	2001	20,000 ACFM	N/A
D-1190	295A	Packed Bed Scrubber	1992	526 ACFM	N/A
C-1318	295C	Packed Bed Scrubber	1992	30 ACFM	N/A
D-1419	295D	Packed Bed Scrubber	1992	2 ACFM	N/A
C-5330	290B	Venturi Scrubber	1992	7,945 ACFM	N/A
Y-5515	295E	Baghouse	1998	1,094 lbs/hr	N/A
Y-5525	295F	Baghouse	1998	1,094 lbs/hr	N/A

<sup>1</sup>For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-1310	<b>Emission unit name:</b> Ammonia Storage Tank	<b>List any control devices associated with this emission unit:</b> C-1318	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonia Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 365 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ammonia	See C-1320 for emissions from C-1310 or C-1320.	
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> E-7130	<b>Emission unit name:</b> Gas Inlet Preheater	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Gas Inlet Preheater			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart YY

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-1320	<b>Emission unit name:</b> Ammonia Storage Tank	<b>List any control devices associated with this emission unit:</b> C-1318	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonia Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1998	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 365 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ammonia	1.57	0.02
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42. Emissions represent C-1310 or C-1320.</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart YY

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7140	<b>Emission unit name:</b> HCN Reactor	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  HCN Reactor			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart YY

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7150	<b>Emission unit name:</b> Waste Heat Boiler	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Waste Heat Boiler			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart YY

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7210	<b>Emission unit name:</b> Ammonia Absorber Column	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonia Absorber Column			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7310	<b>Emission unit name:</b> Gas Cooler Column	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Gas Cooler Column			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. typ	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7320	<b>Emission unit name:</b> HCN Absorber Column	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  HCN Absorber Column			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7410	<b>Emission unit name:</b> HCN Distillation Column	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  HCN Distillation Column			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. typ	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-7420	<b>Emission unit name:</b> HCN Reflux Drum	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  HCN Reflux Drum			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

**45CFR34; 40CFR Subpart SS; R13-1448 §A.7**

- Submit statement that the emission stream is connected to the fuel gas system and whether the conveyance system is subject to the requirements of 40CFR §63.984(c).

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-7144	<b>Emission unit name:</b> Hydrogen Saturation Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Hydrogen Saturation Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. lb/yr	<b>Maximum Operating Schedule:</b> 12 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8150	<b>Emission unit name:</b> Process Area Sump (section 7000)	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Process Area Sump (section 7000)			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> E-1430	<b>Emission unit name:</b> Vaporizer	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Vaporizer			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart YY**

- HCN Unit is subject to the Generic HCN MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-2110R	<b>Emission unit name:</b> Catalyst Feed Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Catalyst Feed Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 365 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>NA</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

***Emission Unit Description***

<b>Emission unit ID number:</b> Y-8394	<b>Emission unit name:</b> PV3 KO Pot	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>
---	--	--

**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

PV3 KO Pot

<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A
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<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
<20,000 gallons

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350days/yr
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***Fuel Usage Data (fill out all applicable fields)***

<b>Does this emission unit combust fuel?</b> ___Yes <u>X</u> No	<b>If yes, is it?</b> ___ Indirect Fired ___Direct Fired
---	---

<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A	<b>Type and Btu/hr rating of burners:</b> N/A
---	--

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

N/A

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> C-4114	<b>Emission unit name:</b> Concentrated Rhodimet Pot	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Concentrated Rhodimet Pot			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 70 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>No vent from pot.</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-4124	<b>Emission unit name:</b> Concentrated Rhodimet Pot	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Concentrated Rhodimet Pot			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 70 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>No vent from pot.</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-5210	<b>Emission unit name:</b> Ammonium Sulfate Crystallizer	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonium Sulfate Crystallizer			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> C-8140	<b>Emission unit name:</b> HCN Stripping Column	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  HCN Stripping Column			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> D-1110	<b>Emission unit name:</b> MTPA Storage Tank	<b>List any control devices associated with this emission unit:</b> D-1190	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  MTPA Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >40,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 365 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 3	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 3		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42 and Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit subject to the MON MACT standards.

**R13-1448 §B.5**

- Conduct monthly visual and olfactory inspection of all pressure relief vents.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

*Monitoring Requirements*

- Conduct monthly visual and olfactory inspection of all pressure relief vents.
  - Record inspection and document repairs in a log.
  - If leak detected, repair as soon as possible.
  - If not repaired in 30 days, notify the DAQ.

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> D-1120	<b>Emission unit name:</b> MTPA Storage Tank	<b>List any control devices associated with this emission unit:</b> D-1190	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  MTPA Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >40,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 365 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 3	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 3		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42 and Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit subject to the MON MACT standards.

**R13-1448 §B.5**

- Conduct monthly visual and olfactory inspection of all pressure relief vents.

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

*Monitoring Requirements*

- Conduct monthly visual and olfactory inspection of all pressure relief vents.
  - Record inspection and document repairs in a log.
  - If leak detected, repair as soon as possible.
  - If not repaired in 30 days, notify the DAQ.

Are you in compliance with all applicable requirements for this emission unit? X Yes \_\_\_No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-1150	<b>Emission unit name:</b> MTPA Unloading Surge Tank	<b>List any control devices associated with this emission unit:</b> D-1190	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  MTPA Unloading Surge Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 3	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 3		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42 and Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit subject to the MON MACT standards.

**R13-1448 §B.5**

- Conduct monthly visual and olfactory inspection of all pressure relief vents.

Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

*Monitoring Requirements*

- Conduct monthly visual and olfactory inspection of all pressure relief vents.
  - Record inspection and document repairs in a log.
  - If leak detected, repair as soon as possible.
  - If not repaired in 30 days, notify the DAQ.

**Are you in compliance with all applicable requirements for this emission unit?**  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-1210	<b>Emission unit name:</b> Sulfuric Acid Storage Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Sulfuric Acid Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	<0.01	<0.001
Total Particulate Matter (TSP)	<0.01	<0.001
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Sulfuric Acid	<0.01	<0.001
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR7 §4.2; R13-1448 §B.7**

- Sulfuric acid emissions stack concentration no greater than 35 mg/dry cubic meter.

**45CSR7 §4.3; R13-1448 §B.7**

- No person can circumvent the sulfuric acid concentration limit by adding additional gas.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-1410	<b>Emission unit name:</b> Ammonia Solution Tank	<b>List any control devices associated with this emission unit: D-1419</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonia Solution Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ammonia	1.30	0.02
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> D-3110	<b>Emission unit name:</b> Cyanohydrine Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Cyanohydrine Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR16; 40CFR §60.112b(a)(3); 40CFR §60.485(b); 40CFR §60.18**

- Tank shall be equipped with a closed vent system.
  - Designed to collect all VOC vapors and gases.
  - Operated with not detectable emission measured < 500 ppm above background and by visual inspections.
- Thermal Oxidizer will reduce VOC emissions by 95 percent.
- When Flare is used it will meet general provisions in 40CFR §60.18.

**45CSR16; 40CFR60, Subpart Kb**

- Tank is subject to the recordkeeping requirements of Subpart Kb.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

*Recordkeeping Requirement*

- Keep readily accessible records showing the tank's dimension and an analysis showing the tank's capacity.
- Keep copies of all required Subpart Kb records for the life of the source.

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-3310	<b>Emission unit name:</b> Hydrolyzed Buffer Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Hydrolyzed Buffer Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-3320	<b>Emission unit name:</b> Neutralization Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Neutralization Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-3415	<b>Emission unit name:</b> Organic Phase Receiver	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Organic Phase Receiver			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-4230	<b>Emission unit name:</b> Filtered Rhodimet Receiver	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Filtered Rhodimet Receiver			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> D-4240	<b>Emission unit name:</b> Cake Redissolution Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Cake Redissolution Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-4310	<b>Emission unit name:</b> Rhodimet Day Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Rhodimet Day Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR16; 40CFR60, Subpart Kb**

- Tank is subject to the recordkeeping requirements of Subpart Kb.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

***Recordkeeping Requirements***

- Keep readily accessible records showing the tank's dimension and an analysis showing the tank's capacity.
- Keep copies of all required Subpart Kb records for the life of the source.

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-4320	<b>Emission unit name:</b> Rhodimet Day Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Rhodimet Day Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR16; 40CFR60, Subpart Kb**

- Tank is subject to the recordkeeping requirements of Subpart Kb.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

***Recordkeeping Requirements***

- Keep readily accessible records showing the tank's dimension and an analysis showing the tank's capacity.
- Keep copies of all required Subpart Kb records for the life of the source.

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-4330	<b>Emission unit name:</b> Rhodimet Storage Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Rhodimet Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >40,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR16; 40CFR §60.112b(a)(3); 40CFR §60.485(b); 40CFR §60.18**

- Tank shall be equipped with a closed vent system.
  - Designed to collect all VOC vapors and gases.
  - Operated with not detectable emission measured < 500 ppm above background and by visual inspections.
- Thermal Oxidizer will reduce VOC emissions by 95 percent.
- When Flare is used it will meet general provisions in 40CFR §60.18.

**45CSR16; 40CFR60, Subpart Kb**

- Tank is subject to the recordkeeping requirements of Subpart Kb.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

*Recordkeeping Requirements*

- Keep readily accessible records showing the tank's dimension and an analysis showing the tank's capacity.
- Keep copies of all required Subpart Kb records for the life of the source.

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> D-4340	<b>Emission unit name:</b> Rhodimet Storage Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Rhodimet Storage Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1997	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >40,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR16; 40CFR §60.112b(a)(3); 40CFR §60.485(b); 40CFR §60.18**

- Tank shall be equipped with a closed vent system.
  - Designed to collect all VOC vapors and gases.
  - Operated with not detectable emission measured < 500 ppm above background and by visual inspections.
- Thermal Oxidizer will reduce VOC emissions by 95 percent.
- When Flare is used it will meet general provisions in 40CFR §60.18.

**45CSR16; 40CFR60, Subpart Kb**

- Tank is subject to the recordkeeping requirements of Subpart Kb.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

*Recordkeeping Requirements*

- Keep readily accessible records showing the tank's dimension and an analysis showing the tank's capacity.
- Keep copies of all required Subpart Kb records for the life of the source.

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-5110	<b>Emission unit name:</b> Sulfate Solution Buffer Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Sulfate Solution Buffer Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> D-5245	<b>Emission Unit Description</b> Mother Liquor Receiver	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b> Mother Liquor Receiver			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-5510	<b>Emission unit name:</b> Ammonium Sulfate Silo	<b>List any control devices associated with this emission unit:</b> Y-5515	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonium Sulfate Silo			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	0.56	2.40
Total Particulate Matter (TSP)	0.56	2.40
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	0.01	0.001
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42 and Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR7 §3.7**

- Smoke and particulate matter to the open air from a storage structure.

**45CSR7 §5.1**

- Storage structure equipped with a system to minimize fugitive particulate matter emissions.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-5520	<b>Emission unit name:</b> Ammonium Sulfate Silo	<b>List any control devices associated with this emission unit:</b> Y-5525	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonium Sulfate Silo			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> >20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	0.56	2.40
Total Particulate Matter (TSP)	0.56	2.40
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	0.01	0.001
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42 and Engineering Estimates</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

**45CSR7 §3.7**

- Smoke and particulate matter to the open air from a storage structure.

**45CSR7 §5.1**

- Storage structure equipped with a system to minimize fugitive particulate matter emissions.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

***Emission Unit Description***

<b>Emission unit ID number:</b> D-8110	<b>Emission unit name:</b> Process Area Sump	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
  
Process Area Sump

<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A
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<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
N/A

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr
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***Fuel Usage Data (fill out all applicable fields)***

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A	<b>Type and Btu/hr rating of burners:</b> N/A
---	--

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**  
  
N/A

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8120	<b>Emission unit name:</b> Waste Water Holding Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Waste Water Holding Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8124	<b>Emission unit name:</b> Waste Water Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Waste Water Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8130	<b>Emission unit name:</b> Effluent Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Effluent Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8160	<b>Emission unit name:</b> Stripped Water Receiver	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Stripped Water Receiver			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8170	<b>Emission unit name:</b> Treatment	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Treatment			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-8190	<b>Emission unit name:</b> Pretreated Wastewater Sump	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Pretreated Wastewater Sump			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9120	<b>Emission unit name:</b> Chilled Water Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Chilled Water Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	<0.01	<0.001
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Ethylene Glycol	<0.01	<0.001
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

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- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9130	<b>Emission unit name:</b> Chilled Water Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Chilled Water Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> Future	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	<0.01	<0.001
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Ethylene Glycol	<0.01	<0.001
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

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- Rhodimet Unit is subject to the MON MACT.
- 

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9140 D-9148	<b>Emission unit name:</b> Water Ring Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Water Ring Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

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- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9220	<b>Emission unit name:</b> Unit Water Tank	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Unit Water Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

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- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9310 E-9316	<b>Emission unit name:</b> Steam Condensate Flash Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Steam Condensate Flash Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

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- Rhodimet Unit is subject to the MON MACT.
- 

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9320	<b>Emission unit name:</b> Betz Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Betz Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. gal/yr	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___Yes <u>X</u> No		<b>If yes, is it?</b> ___ Indirect Fired ___Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

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- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> D-9330	<b>Emission unit name:</b> Betz Tank	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Betz Tank			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. gal/hr	<b>Maximum Annual Throughput:</b> Conf. gal/yr	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> E-4110	<b>Emission unit name:</b> Thin Film Evaporator	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Thin Film Evaporator			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> E-4120	<b>Emission unit name:</b> Thin Film Evaporator	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Thin Film Evaporator			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<i>Emission Unit Description</i>			
<b>Emission unit ID number:</b> R-2130	<b>Emission unit name:</b> Cyanohydrine Reactor	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Cyanohydrine Reactor			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> R-3210 R-3220 R-3230 R-3240	<b>Emission unit name:</b> Hydrolysis Reactors	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Hydrolysis Reactors			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___Yes <u>X</u> No		<b>If yes, is it?</b> ___ Indirect Fired ___Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> R/C Depress	<b>Emission unit name:</b> Railcar Depressurization	<b>List any control devices associated with this emission unit:</b> N/A	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b> Railcar Depressurization			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	<0.01	<0.001
Total Particulate Matter (TSP)	<0.01	<0.001
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Sulfuric Acid	<0.01	<0.001
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-3410	<b>Emission unit name:</b> Decanter	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Decanter			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>AP-42</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-4210	<b>Emission unit name:</b> Rotary Pressure Filter	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Rotary Pressure Filter			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A		<b>Type and Btu/hr rating of burners:</b> N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-5230 Y-5240	<b>Emission unit name:</b> Crystal Thickener/Centrifuge	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Crystal Thickener/Centrifuge			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
<b>Fuel Type</b>	<b>Max. Sulfur Content</b>	<b>Max. Ash Content</b>	<b>BTU Value</b>
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-5310	<b>Emission unit name:</b> Ammonium Sulfate Dryer/Separator	<b>List any control devices associated with this emission unit:</b> C-5330	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonium Sulfate Dryer/Separator			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. lb/hr	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	1.65	7.20
Total Particulate Matter (TSP)	1.65	7.20
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	0.92	4.10
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Cyanide	<0.01	<0.05
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Sulfuric Acid	<0.01	<0.001
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**ATTACHMENT E - Emission Unit Form**

**REDACTED COPY – CLAIM OF CONFIDENTIALITY – BAYER CROPSCIENCE – 6/14/10**

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-5320	<b>Emission unit name:</b> Ammonium Sulfate Cooler	<b>List any control devices associated with this emission unit:</b> C-5330	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Ammonium Sulfate Cooler			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> N/A			
<b>Maximum Hourly Throughput:</b> Conf. tpy	<b>Maximum Annual Throughput:</b> Conf. tpy	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	See Dryer Y-5310	
Total Particulate Matter (TSP)	See Dryer Y-5310	
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Dryer Y-5310	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
	See Dryer Y-5310	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	See Dryer Y-5310	
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

**Applicable Requirements**

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

**40CFR63, Subpart FFFF**

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-8391	<b>Emission unit name:</b> PV1 KO Pot	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  PV1 KO Pot			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

<b>Emission Unit Description</b>			
<b>Emission unit ID number:</b> Y-8393	<b>Emission unit name:</b> PV1 KO Pot	<b>List any control devices associated with this emission unit: Y-8370 or Y-8350, C-8380</b>	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  PV1 KO Pot			
<b>Manufacturer:</b> N/A	<b>Model number:</b> N/A	<b>Serial number:</b> N/A	
<b>Construction date:</b> N/A	<b>Installation date:</b> 1993	<b>Modification date(s):</b> N/A	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> <20,000 gallons			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 350 days/yr	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>  N/A		<b>Type and Btu/hr rating of burners:</b>  N/A	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  N/A			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO <sub>x</sub> )	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	N/A	N/A
Particulate Matter (PM <sub>10</sub> )	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO <sub>2</sub> )	N/A	N/A
Volatile Organic Compounds (VOC)	See Attachment G, Table 1 and Table 2.	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Attachment G, Table 1 and Table 2.		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Engineering Estimates</p>		

*Applicable Requirements*

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40CFR63, Subpart FFFF

- Rhodimet Unit is subject to the MON MACT.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

NA

Are you in compliance with all applicable requirements for this emission unit?  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## **Attachment F**

### **Schedule of Compliance**

Since there are currently no “out of compliance” emission units in the Rhodimet Unit, this section is not applicable.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> C-1318	<b>List all emission units associated with this control device.</b> C-1310, C-1320
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<b>Manufacturer:</b> Luftrol Inc. or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1992
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input checked="" type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Ammonia	99.9%	98%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Packed bed scrubber
- Liquor flow rate  $\geq$  1.5 gal/min

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Liquor flow rate confirmed to be at or above the minimum rate before each tank charge.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> Y-8370	<b>List all emission units associated with this control device.</b> Various Rhodimet and HCN Unit process and storage equipment.
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<b>Manufacturer:</b> IT McGill or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1992
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input checked="" type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator		<input type="checkbox"/> Dry Plate Electrostatic Precipitator

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
VOC	99.9%	99%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Flare
- Pilot light sensor

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart YY (Generic HCN MACT) and 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Pilot light sensor readings continuously taken (at least 4 per hour) and a continuous record of the times the pilot light is not operating.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> C-5330	<b>List all emission units associated with this control device.</b> Y-5310
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<b>Manufacturer:</b> Clean Gas System or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1992
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input checked="" type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator		<input type="checkbox"/> Dry Plate Electrostatic Precipitator

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	99.9%	99.7%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Venturi scrubber
- Pressure drop ≤ 3" w.c.
- Liquor flow rate ≥ 60 gal/min

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject of 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Pressure drop taken every 2 hours and averaged over the monitoring period.
- Liquor flow rate taken every 2 hours and averaged over the monitoring period.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> C-8380	<b>List all emission units associated with this control device.</b> Various Rhodimet and HCN Unit process and storage equipment.
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<b>Manufacturer:</b> Air Pol or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 2001
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input checked="" type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator		<input type="checkbox"/> Dry Plate Electrostatic Precipitator

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Sulfur Dioxide	99.9%	95%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Packed-bed caustic scrubber
- Pressure drop ≤ 6" w.c.
- pH of liquor ≥ 7
- Recycle liquor flow ≥ 475 gal/min

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart YY (Generic HCN MACT) and 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Pressure drop taken every 2 hours and averaged over the monitoring period.
- pH taken every 2 hours and averaged over the monitoring period.
- Recycle liquor flow taken every 2 hours and averaged over the monitoring period.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> D-1190	<b>List all emission units associated with this control device.</b> D-1110, D-1120, D-1150
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<b>Manufacturer:</b> Luftrol Inc or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1992
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input checked="" type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Methylthiopropionaldehyde	99.9%	98%
Other VOCs	99.9%	30%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Packed-bed scrubber
- Pressure drop  $\leq 6''$  w.c.
- Liquor flow rate  $\geq 10.5$  gal/min
- Cl concentration  $\geq 0.75$  wt%

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Pressure drop taken every 2 hours and averaged over the monitoring period.
- Liquor flow rate taken every 2 hours and averaged over the monitoring period.
- Cl concentration taken once per week and averaged over the monitoring period.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> D-1419	<b>List all emission units associated with this control device.</b> D-1410
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<b>Manufacturer:</b> Luftrol Inc. or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1992
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input checked="" type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Ammonia	99.9%	90%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Packed-bed scrubber
- Liquor flow rate  $\geq 0.75$  gal/min

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Liquor flow rate taken every 2 hours and averaged over the monitoring period.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> Y-5515	<b>List all emission units associated with this control device.</b> D-5510
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<b>Manufacturer:</b> Flex-keen or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1998
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**Type of Air Pollution Control Device:**

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	99.9%	99.95%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Pulse jet baghouse

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Monthly visual emission checks.

## ATTACHMENT G - Air Pollution Control Device Form

**Control device ID number:**  
Y-5525

**List all emission units associated with this control device.**  
D-5520

**Manufacturer:**  
Flex-keen or Equivalent

**Model number:**  
NA

**Installation date:**  
1998

**Type of Air Pollution Control Device:**

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Baghouse/Fabric Filter    | <input type="checkbox"/> Venturi Scrubber      | <input type="checkbox"/> Multiclone                           |
| <input type="checkbox"/> Carbon Bed Adsorber                  | <input type="checkbox"/> Packed Tower Scrubber | <input type="checkbox"/> Single Cyclone                       |
| <input type="checkbox"/> Carbon Drum(s)                       | <input type="checkbox"/> Other Wet Scrubber    | <input type="checkbox"/> Cyclone Bank                         |
| <input type="checkbox"/> Catalytic Incinerator                | <input type="checkbox"/> Condenser             | <input type="checkbox"/> Settling Chamber                     |
| <input type="checkbox"/> Thermal Incinerator                  | <input type="checkbox"/> Flare                 | <input type="checkbox"/> Other (describe)                     |
| <input type="checkbox"/> Wet Plate Electrostatic Precipitator |  | <input type="checkbox"/> Dry Plate Electrostatic Precipitator |

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	99.9%	99.95%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Pulse jet baghouse

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Monthly visual emission checks.

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> Y-8350	<b>List all emission units associated with this control device.</b> Various Rhodimet and HCN Unit process and storage equipment.
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<b>Manufacturer:</b> John Zinc or Equivalent	<b>Model number:</b> NA	<b>Installation date:</b> 1992
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input checked="" type="checkbox"/> Other (describe) Thermal Oxidizer
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
VOC	99.9%	99.9%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

- Process thermal oxidizer
- Firebox temperature  $\geq 1,800^{\circ}\text{F}$

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** Device emission limitations and standards already established under existing Title V Permit. Subject to 40CFR63, Subpart YY (Generic HCN MACT) and 40CFR63, Subpart FFFF (MON MACT).

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- Firebox temperature continuous readings (at least 4 per hour) averaged over the monitoring period.

**Table 1**  
**Thermal Oxidizer Y-8350 and Scrubber C-8380**  
**(Emission Point 290G)**

Emission Units	Pollutant	Controlled Emissions	
		(lb/hr)	(tpy)
C-4114, C-4124, D-5210, C-7140, C-7150, C-7210, C-7310, C-7320, C-7410, C-7420, C-8140, D-3110, D-3310, D-3320, D-3415, D-4230, D-4240, D-4310, D-4320, D-4330, D-4340, D-5110, D-5245, D-8110, D-8120, D-8124, D-8130, D-8150, D-8160, D-8170, D-8190, D-9140, D-9148, D-9220, E-1430, E-4110, E-4120, E-7130, R-2130, R-3210, R-3220, R-3230, R-3240, Y-3410, Y-4210, Y-5230, Y-5240, Y-8391, Y-8393, & Y-8394	NO <sub>x</sub>	7.40	30.35
	SO <sub>x</sub>	5.50	24.15
	CO	1.54	6.80
	HAPs <sup>1</sup>	0.07	0.30
	VOC	0.12	0.52
	NO <sub>x</sub> <sup>2</sup>	41.0	8.03

**Notes:** <sup>1</sup> Hydrogen Cyanide, Acrolein, Acetaldehyde, and Hydroquinone

<sup>2</sup> Represents NO<sub>x</sub> emissions during cold startups and HCN reactor diversions.

**Table 2**  
**Flare Y-8370**  
**(Emission Point 290F)**

Emission Units	Pollutant	Controlled Emissions	
		(lb/hr)	(tpy)
C-4114, C-4124, D-5210, C-7140, C-7150, C-7210, C-7310, C-7320, C-7410, C-7420, C-8140, D-3110, D-3310, D-3320, D-3415, D-4230, D-4240, D-4310, D-4320, D-4330, D-4340, D-5110, D-5245, D-8110, D-8120, D-8124, D-8130, D-8150, D-8160, D-8170, D-8190, D-9140, D-9148, D-9220, E-1430, E-4110, E-4120, E-7130, R-2130, R-3210, R-3220, R-3230, R-3240, Y-3410, Y-4210, Y-5230, Y-5240, Y-8391, Y-8393, & Y-8394	NO <sub>x</sub>	7.40	0.40
	SO <sub>x</sub>	6.40	0.31
	CO	15.4	0.74
	HAPs <sup>1</sup>	0.65	0.03
	VOC	0.96	0.05

**Notes:** <sup>1</sup> Hydrogen Cyanide, Acrolein, Acetaldehyde, and Hydroquinone

**Table 3**  
**Bleach Scrubber D-1190**  
**(Emission Point 295A)**

Emission Units	Pollutant	Controlled Emissions	
		(lb/hr)	(tpy)
D-1110, D-1120, D-1150	Cl <sub>2</sub> (HAP)	0.05	0.20
	Impurities HAP <sup>1</sup>	0.01	0.05
	Total HAPs	0.06	0.25
	Total VOC	0.07	0.86

**Notes:** <sup>1</sup> HAP impurities account for trace levels of Acrolien, Acetaldehyde, and Hydroquinone present in MTPA raw material.

## ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at <http://www.epa.gov/ttn/emc/cam.html>

### CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*):

YES  NO

- a. The PSEU is located at a major source that is required to obtain a Title V permit;
- b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is **NOT** exempt;

#### LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
  - Stratospheric Ozone Protection Requirements.
  - Acid Rain Program Requirements.
  - Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
  - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
  - d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
  - e. The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

### BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

**RENEWAL APPLICATION.** **ALL** PSEUs for which a CAM plan has **NOT** yet been approved need to be addressed in this CAM plan submittal.

**INITIAL APPLICATION** (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

**SIGNIFICANT MODIFICATION TO LARGE PSEUs.** **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, **Only** address the appropriate monitoring requirements affected by the significant modification.

**3) <sup>a</sup> BACKGROUND DATA AND INFORMATION**

Complete the following table for all PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU in order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	<sup>b</sup> EMISSION LIMITATION or STANDARD	<sup>c</sup> MONITORING REQUIREMENT
NA	NA	NA	NA	NA	NA
<u>EXAMPLE</u> Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

<sup>a</sup> If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

<sup>b</sup> Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

<sup>c</sup> Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

**CAM MONITORING APPROACH CRITERIA**

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for **EACH** indicator selected for **EACH** PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. If more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.

4a) PSEU Designation:	4b) Pollutant:	4c) <sup>a</sup> Indicator No. 1:	4d) <sup>a</sup> Indicator No. 2:
<b>5a) GENERAL CRITERIA</b> Describe the <u>MONITORING APPROACH</u> used to measure the indicators:			
<sup>b</sup> Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:			
<b>5b) PERFORMANCE CRITERIA</b> Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:			
<sup>c</sup> For new or modified monitoring equipment, provide <u>VERIFICATION PROCEDURES</u> , including manufacturer's recommendations, <u>TO CONFIRM THE OPERATIONAL STATUS</u> of the monitoring:			
Provide <u>QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES</u> that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):			
<sup>d</sup> Provide the <u>MONITORING FREQUENCY</u> :			
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:			
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:			

<sup>a</sup> Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

<sup>b</sup> Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

<sup>c</sup> The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

<sup>d</sup> Emission units with post-control PTE ≥ 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.

**RATIONALE AND JUSTIFICATION**

Complete this section for EACH PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:

6b) Regulated Air Pollutant:

7) **INDICATORS AND THE MONITORING APPROACH:** Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

8) **INDICATOR RANGES:** Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how EACH indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.
- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.
- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

**RATIONALE AND JUSTIFICATION:**

The HCN Unit is covered by 40CFR63, Subpart YY (Generic HCN MACT). The Rhodimet Unit is covered by 40CFR63, Subpart FFFF ( MON MACT). In addition, emission limits and standards have been established by the previous Title V permit. Also, some pollutants are not regulated and some are emitted at less than 100 tons per year before controls.



Bayer CropScience

# Bayer CropScience

## Group 2 Title V Renewal Permit Application

Institute, West Virginia

**Claimed Confidential**

Prepared By  
ENVIRONMENTAL RESOURCES MANAGEMENT, Inc.  
Hurricane, West Virginia  
June 2010



John A. Benedict, Director  
WV Department of Environmental Protection  
Division of Air Quality  
601 57th Street, SE  
Charleston, West Virginia 25304

**HAND DELIVERED**

Re: Bayer CropScience Institute Site, Institute, West Virginia  
Group 2 of 8 Title V Renewal Permit Application  
Confidentiality Justification

June 14, 2010

Bayer CropScience  
Institute Site  
P. O. Box 1005  
Charleston, WV 25112

Tel. 304 767 6161  
Fax 304 767 6879

<b>Company Name:</b>	Bayer CropScience	<b>Authorized Representative:</b>	Steve Hedrick
<b>Company Address:</b>	PO Box 1005 Institute, WV 25112	<b>Title:</b>	VP, Head Institute Industrial Park
<b>Person/Title:</b>	Brian Schmidt	<b>Confidential Name:</b>	Brian Schmidt
<b>Submitting Confidential Information:</b>	Environmental Specialist	<b>Information Title:</b>	Environmental Specialist
		<b>Address:</b>	PO Box 1005 Institute, WV 25112
		<b>WV Designee Phone:</b>	304-767-6161
		<b>State of WV Fax:</b>	304-767-6879

Document Name: **Bayer CropScience Group 2 Title V Renewal Permit Application**

Reason for Submittal: **Rule 30 Permit Application**

Dear Mr. Benedict:

The attached document contains confidential information concerning Bayer CropScience's Institute, West Virginia Plant, the disclosure of which would likely cause

substantial harm to Bayer's business competitive position. The following lists the pages containing confidential information and a summary explanation and justification as to why disclosure would likely cause substantial harm to Bayer's business competitive position. In accordance with 45CSR 31, two CDs containing confidential information have been clearly dated and labeled "Claimed Confidential". Likewise, the confidential pages contained in the confidential CDs have been dated and marked with the words "Claimed Confidential". Two redacted CDs dated and marked "Redacted Copy" are also been submitted. Pages containing confidential information have been removed in the redacted CDs and replaced with pages dated and marked "Redacted Copy".

Below references the documentation, especially when considered in total and in context, that is claimed confidential by Bayer and should not be disclosed to the public. The claim of confidentiality is based on the criteria found in 45CSR 31 Section 4.1.

- |                                     |   |   |
|-------------------------------------|---|---|
| <input type="checkbox"/>            | <b>Process Description</b> - Would give competitors the process technology, which they could then produce at a lower cost because no research was required.   | Pages: NA   |
| <input checked="" type="checkbox"/> | <b>Process Diagram</b> - Would give competitors the process technology, which they could then produce at a lower cost because no research was required.   | Pages: Attachment C – HCN Process and Rhodimet Process Flow Diagrams.   |
| <input type="checkbox"/>            | <b>Raw Material</b> - Would allow competitors to determine the process technology when used with other information noted above without conducting the research giving them an undue economic advantage. | Pages: NA   |
| <input type="checkbox"/>            | <b>Detailed Equipment Names</b> - Would allow competitors to piece together the process and obtain the technology without conducting the research giving them an undue economic advantage.              | Pages: NA   |
| <input checked="" type="checkbox"/> | <b>Process Parameters</b> - Would allow competitors to piece together the process and obtain the technology without conducting the research giving them an undue economic advantage.                    | Pages: Attachment E – HCN Emission Units (hourly and annual throughput), pages 1,4, 7, 10, 13, 16, 19, 22, 25, 28, 31, & 37 of 39.<br><br>Attachment E – Rhodimet Emission Units (hourly and annual throughput), pages 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 85, 88, 91, 94, 97, 100, 103, 106, 109, 112, 115, 118, 121, 124, 127, 133, 136, 139, 142, & 145 of 153. |

Bayer claims business confidentiality protection for the identified parts of this permit application noted above mainly because the information, if released, would allow reasonably competent chemical engineers to determine the manner in which Bayer produces the products of its processes. The raw materials and equipment are available to current and potential competitors; therefore, disclosure of this information would allow these competitors to produce this product without either paying for the technology or conducting the research and development necessary to obtain the technology themselves. This would allow competitors an undue economic advantage since they could potentially produce the product at a lower cost. Some of the information is claimed confidential because if released could provide an unfair advantage to competitors allowing them to prepare marketing strategies based on information not available to all companies in the market.

Confidentiality is requested permanently until such time a responsible representative of Bayer declassifies the confidential information. Bayer continues to claim business confidentiality protection for this information. The claim has not expired by its term, or been waived or withdrawn. No statute specifically requires the disclosure of this information.

Bayer has taken, and continues to take, all reasonable measures to protect the confidentiality of this information through such measures as vendor licensee nondisclosure agreements, limited distribution lists, shredding of documents marked confidential prior to disposal, and appropriately marking and redacting copies. This information is not reasonably obtainable without Bayer's consent. Within the company, Bayer has distributed this information on a need-to-know basis only. In addition, Bayer expects its employees to prevent inadvertent dissemination of information. Special provisions for shredding business confidential documents have been made to allow for recycling. There are no plans to relax strict maintenance of business confidentiality for this technology.

Information revealing the technology in the referenced document is not reasonably obtainable by persons other than the Bayer employees and/or vendors who need to know and personnel in the West Virginia Department of Environmental Protection, Division of Air Quality.

Bayer requests that the Division of Air Quality notify the company with regard to any third-party request for disclosure of its confidential information prior to any release of such information, so as to enable Bayer to have the opportunity to object to such release and/or defend its claim of confidentiality.

If you have any questions, please call Brian Schmidt of my staff at 304-767-6161.

Sincerely,

Steve Hedrick  
VP, Head Institute Industrial Park

**Attachment F – Process Flow Diagram  
Bayer CropScience HCN Unit**

**HCN Process  
Flow Diagram is  
Confidential**

**Redacted Copy  
Claim of Confidentiality  
6/14/10**

**Attachment F – Process Flow Diagram  
Bayer CropScience Rhodimet Unit**

**Rhodimet  
Process Flow  
Diagram is  
Confidential**

**Redacted Copy  
Claim of Confidentiality  
6/14/10**