

STATE OF MISSISSIPPI
DEPT. OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL
P.O. BOX 10385
JACKSON, MS 39289-0385
(601) 961-5171

APPLICATION FOR
AIR POLLUTION CONTROL PERMIT
TO CONSTRUCT AND/OR OPERATE
AIR EMISSIONS EQUIPMENT

TYPE OF PERMIT



- ☐ New Source
☐ Modification
☒ Renewal of Operating Permit
☐ Existing Source Operating Permit

Name Red Panther Chemical Co.
Location: City Clarksdale County Coahoma
Facility No. (if known) 0540-00010

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

1. Name, Address & Contact for the Owner/Applicant

A. Name Red Panther Chemical Co.

B. Mailing Address

1. Street Address of P.O. Box P.O. Box 550
2. City Clarksdale 3. State MS
4. Zip Code 38614 5. Telephone No. (601) 627-4731

C. Contact

1. Name Bobby Cain 2. Title Quality Control Manager

2. Name, Address, Location and Contact for the Facility

A. Name Red Panther Chemical Co.

B. Mailing Address

1. Street Address of P.O. Box P.O. Box 550
2. City Clarksdale 3. State MS
4. Zip Code 38614 5. Telephone No. (601) 627-4731

C. Site Location

1. Street Normandy & Patten Streets
2. City Clarksdale 3. County Cochona
4. State MS 5. Zip Code 38614
6. Telephone No. (601) 627-4731

Note: If the facility is located outside the City limits, please attach a sketch or description showing the approximate location to this application.

D. Contact

1. Name Bobby Cain 2. Title Quality Control Manager

3. SIC Code 2879

4. Number of Employees 100

5. Principal Product(s) Agricultural Pesticides

6. Principal Raw Materials Agricultural Pesticides

7. Principal Process(es) Formulation of liquid and powdered pesticides and insecticides

8. Maximum amount of principal product produced or raw material consumed per day 80,000 lbs/day

9. Operating Schedule

- A. Specify maximum hours per day the operation will occur: 24
- B. Specify maximum days per week the operation will occur: 7
- C. Specify maximum weeks per year the operation will occur: 52
- D. Specify the months the operation will occur: January through December

10. Only if this application is for Operating Permit renewal, has the facility been modified in any way (including production rate, fuel, and/or raw material changes) during period covered by the Operating Permit? Yes ☒ No If yes, give year(s) in which modification(s) occurred and explain. _____

11. If after August 7, 1977, provide the date construction commenced. Plant was constructed in the 1950's

12. If after August 7, 1977, provide the date operation began. See above

13. Please list the dates of any modifications or emissions increases since August 7, 1977.

1985 (Buildings #11, #12, and #13 were rebuilt after a fire damaged them in 1985.)

14. EACH APPLICATION MUST BE SIGNED BY THE APPLICANT.

If the applicant is a corporation, it must be signed by a corporate officer as defined in Regulation APC-S-2. If the applicant is a partnership, it must be signed by a partner with authority to bind the partnership. In the case of a governmental agency, the application must be signed by the facility manager or senior staff officer responsible for the installation's or facility's environmental compliance.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate, and that, as an appropriate representative of the applicant, my signature shall constitute an agreement that the applicant assumes the responsibility for any alterations, additions or changes in operation that may be necessary to achieve and maintain compliance with all applicable Rules and Regulations.

Bobby Cain
Printed Name of Person Signing

09/20/91
Date Application Signed

Facility Manager
Title

Bobby Cain
Signature of Applicant

PLEASE COMPLETE FOLLOWING PAGES WHERE APPLICABLE

GENERAL INFORMATION & INSTRUCTIONS

- 1) The application is designed to obtain information to allow evaluation of a number of different types of air emission facilities. If the space provided in the application is not adequate or does not fit your air emissions equipment, you may use a separate sheet(s) to provide the necessary information.
- 2) Permits will be valid only for those operations, pollutants, and pollutant emission rates identified in the application. As a minimum, the application must identify the following:
 - A. All operations or equipment having air emissions. For each, specify the maximum schedule, the maximum operating rate and the expected operating rate, if different from the maximum.
 - B. Emission rates (in units of the applicable emission standard as well as lbs/hr and tons/year) for each air pollutant subject to regulation under the Federal Act that can be reasonably expected to be emitted from each independent emission point. The following emission rates shall be provided in the EMISSIONS SUMMARY SECTION:
 1. Potential Uncontrolled Emissions - this emission rate is defined in Regulation APC-S-2, amended April 25, 1991.
 2. Proposed Emission Rate - the maximum emission rate at which the applicant proposes to operate the emission point.

EMISSION RATE CALCULATIONS MUST BE PROVIDED.

- C. The exhaust or stack parameters for each emission source (height, velocity, diameter, and temperature) shall be provided in the EMISSIONS SUMMARY SECTION.

APPLICATION FOR AIR POLLUTION CONTROL PERMIT
ADDITIONAL INFORMATION REQUIRED FOR MODIFICATIONS, EXISTING SOURCE OPERATING
PERMITS, AND/OR APPROVAL TO CONSTRUCT

The following additional information must be submitted in duplicate. Failure to submit any of the additional information or to conform to the instructions may result in initial rejection of the application.

- 1) Design Calculations and Specifications - all data and calculations used in selecting or designing process and control equipment.
- 2) Site Drawings - the drawing(s) or sketch(s) must be to scale and show at least the following:
 - A. The property involved with dimensions, clearly defining restricted entry boundaries and, if different, the total property boundaries.
 - B. Location and identification of all existing and/or proposed buildings, structures, and/or equipment, including points of discharge of air contaminants to the atmosphere, drawn to scale and in proper orientation.
 - C. The dimensions (length, width) of all buildings, structures, and/or equipment, including emission points.
 - D. The elevation of all buildings, structures, and/or equipment, including emission points, showing heights, grade baseline, and grade baseline height above mean sea level.
 - E. Primary compass direction indicator.
 - F. Location of streets and all adjacent properties. Show location of all buildings outside the property that are within 150 feet of the equipment involved in the application. Identify all such buildings (as a residence, apartment, warehouse, etc.), specifying number of stories or approximate height, and indicate the prevailing wind direction.

- 3) Construction Drawings (See Note Below) - an assembly drawing, dimensioned and to scale, in as many sections as are needed to show clearly the design and operation of the equipment and the means by which air contaminants are controlled. The following must be shown:
- A. Size and shape of equipment. Show exterior and interior dimensions and features.
 - B. Locations, sizes, and shape details of all features which may affect the production, collection, conveying or control of air contaminants of any kind; location, size and shape details concerning all materials handling equipment.

NOTE: Structural design calculations and details are not required.

- 4) Description of Process and Control Equipment - a written description of each process to be carried out in the facility and the function of the equipment used in the process. The descriptions must be complete and particular attention must be given to explaining all stages in the process where the discharge of any materials might contribute in any way to air pollution. Control procedures must be described in sufficient detail to show the extent of control of air contaminants anticipated in the design, specifying the expected efficiencies of the capture systems and the control devices. All obtainable data must be supplied concerning the nature, volumes, particle size, weights, chemical composition and concentrations of all types of air contaminants.
- 5) Block Flow Diagram - a diagram showing the steps of the process and the flow of materials through the process and any control devices.

Additional information may be required as is necessary to evaluate the design adequacy of the facility or to comply with the requirements of the Prevention of Significant Deterioration (PSD) Regulations.

ALL ENGINEERING PLANS AND SPECIFICATIONS MUST BEAR THE SIGNATURE, REGISTRATION NUMBER, AND SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSISSIPPI.

EMISSIONS SUMMARY SECTION
PART I

[illegible]

N/A.

- (1) Provide emission rate in units of applicable emission standard, e.g., lb/MMBTU, gr/dscf at 12% O₂, etc. This may not apply to every emission point or every pollutant from an emission point.
- (2) Please provide the total emissions from the facility by pollutant.

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

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

PARTICULATE EMISSIONS CONTROL EQUIPMENT

- | | |
|---|----------------------------|
| 1. Cyclone(s) _____ | 5. Venturi Scrubber _____ |
| 2. Water Scrubber _____ | 6. Cyclonic Baghouse _____ |
| 3. Baghouse <input checked="" type="checkbox"/> _____ | 7. Cyclonic Scrubber _____ |
| 4. Electrostatic Precipitator _____ | 8. Other _____ |

GASEOUS EMISSIONS CONTROL EQUIPMENT

- | | |
|---|----------------|
| 1. Water Scrubber _____ | 3. Other _____ |
| 2. Activated Carbon Bed <input checked="" type="checkbox"/> _____ | |

WASTE DISPOSAL SYSTEMS

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

Pneumatic Conveying System ☒ _____

Other (please describe) _____

FOR ALL APPLICANTS

FUEL BURNING EQUIPMENT

(Except for Refuse Disposal)

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

PAGE 1

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

PAGE 2

8. Reference Number. Continue reference numbers from Page 1, using same number to identify information for same unit.
9. Stack Parameters.
 - Stack Height in feet from ground.
 - Stack Inside Exit Diameter in feet.
 - Exit Gas Velocity in feet per second. (SCFM may be used if velocity is not known; specify units as SCFM if used.)
 - Exit Gas Temperature in degrees F.
10. Fuel Data
 - Fuel Type. Coal, Gas, #2 Oil, #6 Oil, etc.
 - Maximum Capacity burned per hour. Gallons, pounds, cubic feet, etc.
 - Specify. Average amount burned per year. Gallons, tons, million cubic feet, etc.
 - Specify. Heat Content of Fuel. BTU per gallon, pound, cubic foot, etc., Specify.
 - Average Percent Sulfur Content.
 - Average Percent Ash Content.
 - (If percent sulfur and percent ash are not known, list fuel type and supplier's name at bottom of page in spaces provided so that information may be obtained.)

PAGE 3

11. Reference Number. Use same numbers as on Pages 1 and 2 to identify information for same unit.
12. Air Pollution Control Equipment.
 - Manufacturer and Model Number. Information from nameplate. Type. Use Table 1, Page 16. If a wet scrubber, specify gallons per minute of water flow and water pressure if known. Efficiency. Percent design control on pollutants and actual percent control if known.
13. Emission Rates.
 - Specify tons per year of each of the listed pollutants emitted per year.
 - Give basis of estimates of pollutants emitted (Material Balance, Stack Tests, Emission Factors, etc.)
 - (If unit is a kiln or similar unit in which combustion products and process losses vent through a common stack, emissions may be totaled and listed under process losses).

FUEL BURNING EQUIPMENT
(Except for Refuse Disposal)

FACILITY NAME		Address		for Agency use Only		
Red Panther Chemical Company		Normandy & Patton Streets P.O. Box 550 Clarksdale, MS 38614				
FACILITY NUMBER		Information for Calendar Year		Date		
0S40-00010		19 <u>91</u>				

Reference Number	Manufacturer and Model Number	Rated Capacity 10 ³ BTU/hr.	Type of Burner Unit (use code 1*)	Usage (use code 2*)	Most Usage	
					% Process	% Space heat
1	Clever Brooks CBH-40	1.3	7	1	10%	
2	Kemp PH-4	.400	7	5	100%	
3	Carrier 58GP100-Z	.10	7	3		100%
4	Carrier 58GA175-3A	.175	7	3		100%
5	Carrier 58GA100-2A-C	.100	7	3		100%
6	Carrier 58GP175-CA	.175	7	3		100%
7	Trane TUP120A960B0	.120	7	3		100%
8	Trane TUP120A960B0	.120	7	3		100%
9	Trane TUP120A960B0	.120	7	3		100%
10	Trane TUP120A960B0	.120	7	3		100%
11	Whirlpool NVG150DK01	.120	7	3		100%
12	Whirlpool NVG150DK01	.120	7	3		100%

1* BURNER CODES

1. Cyclone furnace
2. Pulverized coal
3. Spreader Stoker
4. Hand fired
5. Other stoker (specify)

6. Multiple port gas
7. Forced draft gas
8. Atomizing Oil (Stove of Air)
9. Atomizing Oil (Mechanical)
10. Rotary Cup Oil
11. Others (specify)

2* USAGE CODES

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

FUEL BURNING EQUIPMENT

Reference Number	Stack Parameters			Fuel Type	Fuel Data				
	Stack Height Feet	Inside Exit Dia. Feet	Exit Gas Velocity Feet/Sec.	Exit Gas Temperature Degree F.	Maximum Amount Per Hour (Specify Units)	Amount Per Year (Specify Units)	Heat Content BTU/Gal, etc. (Specify Units)	Percent Sulfur	Percent Ash
#1	12'	8"		Approx. 300°F	1.3 MM Cu. Ft. Per Hour	832 MM B.T.U.	1011 BTU/CF	0%	0%
#2	None	None	None	Ambient	4000 C.F.H.	24.9 MM C.F.H.	1011 BTU/CF	0%	0%
#3	18'	4"		Approx. 200°F	100,000 BTU	89.6 MM BTU	1011 BTU/CF	0%	0%
#4	18'	4"		"	175,000 BTU	125.4 MM BTU	1011 BTU/CF	0%	0%
#5	18'	4"		"	100,000 BTU	89.6 MM BTU	1011 BTU/CF	0%	0%
#6	18'	4"		"	175,000 BTU	125.4 MM BTU	1011 BTU/CF	0%	0%
#7	20'	6"		"	120,000 BTU	100.0 MM BTU	1000 BTU/CF	0%	0%
#8	20'	6"		"	120,000 BTU	1000 MM BTU	1000 BTU/CF	0%	0%
#9	20'	6"		"	120,000 BTU	1000 MM BTU	1000 BTU/CF	0%	0%
#10	20'	6"		"	120,000 BTU	1000 MM BTU	1000 BTU/CF	0%	0%
#11	20'	6"		"	120,000 BTU	107.5 MM BTU	1011 BTU/CF	0%	0%
#12	20'	4"		"	120,000 BTU Supplier Miss. Valley Gas	107.5 MM BTU	1011 BTU/CF	0%	0%

FUEL SUPPLIERS:

Fuel Type
Natural Gas

FUEL BURNING EQUIPMENT

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

FOR ALL APPLICANTS

MANUFACTURING PROCESS OPERATIONS

Page 1

1. Company Name and Address, plus year for which information is given (if existing facility) at top of page. Use data for most recent calendar year available.
2. Reference Number. Use an identifying number for each manufacturing process which emits matter to the air and use the same number on all three pages of this form to identify information for the same operation.
3. Process or Unit Operation Name. Identify the unit or process section for which information is given by name.
4. Rated Process Capacity. Give in tons per hour the maximum rated capacity of the process or unit identified, wet weight.
5. Feed Input. Process rate in wet tons per hour and wet tons per year of materials fed to the operation.
6. Number of Emission Points to Air. Number of stacks, vents, etc., which emit materials to air.
7. Product Output. Product rate in wet tons per hour and wet tons per year from the operation.

Page 2

8. Reference Number. Use same number as on Page 1 of form to identify information for same process or operation.
9. Stack Data (or outlet of air cleaning device).
Stack Height in feet above ground.
Stack Inside Diameter in Feet.
Exit Gas Velocity in feet per second. (SCFM may be used if velocity is not known; specify units as SCFM if used).
Exit Gas Temperature in degrees F.
10. Air Pollution Control Equipment.
Manufacturer and Model Number. Nameplate Data.
Type. Use Table 1, Page 16. If a wet scrubber, give water flow in GPM and water pressure.
Collection efficiency. Design and actual collection efficiency if known.

Page 3

11. Reference Number. Use same number as on Pages 1 & 2 of form to identify information for same process or operation.
12. Process Emissions. Give in pounds per hour and tons per year the amount of emissions from the process or operation of each of the two pollutant categories so that process rates versus emission rates may be compared with Regulations. Identify the units of measure used.
Give the basis of the estimates of pollutants emitted (stack tests, material balance, emission factors, etc.)

PAGE 1

Company Name		Address		FOR AGENCY USE
Red Panther Chemical Company		Normandy & Patton Streets P.O. Box 550 Clarksdale, MS 38614		
FACILITY NUMBER		Information for Calendar Year		Date
0540		19 <u>91</u>		

[illegible]

(FOR AGENCY USE ONLY)

MANUFACTURING PROCESS OPERATIONS

Reference Number	Stack Data				Air Pollution Control Equipment			
	Height Feet	Inside Unit Dia. Feet	Exit Gas Velocity Feet/Sec.	Exit Gas Temperature °F	Manufacturer and Model Number	Type* (use Table 1)	Collection Efficiency	
							Design	Actual
WP #1	20	1.00	32	Ambient	MikroPul Mod. #Unknown	35	99.9%	99.9%
WP #1a	30	2.00	40	"	MikroPul Mod. #Unknown	35	99.9%	99.9%
WP #2	20	1.00	42	"	Mac Equipment Co. 96LST64-3	35	99.9%	99.9%
WP #3	20	1.00	32	"	MikroPul Mod. #Unknown	35	99.9%	99.9%
WP #4	18'	1.00	76	"	New York Filter	10	99.9%	99.9%
Note: All reverse jet bag houses filter less than 6 SCFM/Sq. Ft. cloth area. All powder production units have secondary filter baghouses to refilter the air before release to the atmosphere. The high efficiency of the baghouses is enhanced by the redundant filtration resulting in overall filtration efficiency of greater than 99.9%.								

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

12

[illegible]

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

FOR ALL APPLICANTS

REFUSE DISPOSAL AND INCINERATION

- A. Company Name & Address plus year for which information is given if for renewal of permit, at top of page.
- B. Type Waste. Describe type of waste materials (paper, garbage, wood crates, sawdust, coal refuse, etc.)
- C. Maximum amount per day in pounds.
- D. Average amount per year in tons.
- E. Method of Disposal. Use codes at bottom of Form (1*).

Page 2

1. Type of Incinerator. Check which applies.
2. Manufacturer, Model Number, Capacity in pounds per hour and type waste on which capacity is based (Nameplate Data).
3. Average Quantity Burned in pounds per year.
4. Operating Schedule for Incinerator. Hours per day and days per year incinerator is in operation.
5. Auxiliary Fuel Data.
Type. (Natural Gas, #2 Oil, etc.)
Amount per year. Specify gallons, cubic feet, etc.
Heat Content of Fuel. BTU per gallon, cubic feet, etc.
Percent Sulfur. Average sulfur content of auxiliary fuel.
Percent Ash. Average ash content of auxiliary fuel.
Fuel supplier's name if ash and sulfur content are not known.
6. Pollution Control Equipment on Incinerator.
Manufacturer of Control Device.
Model Number of Control Device.
Percent efficiency of control if known.
Type. Venturi Scrubber, Baghouse, etc., as outlined on other forms.
GPM water flow if control device is a wet scrubber.
7. Stack Data.
Height in Feet above Ground.
Inside Exit Diameter in Feet.
Exit Gas Velocity in Feet per Second.
Exit Gas Volume if Velocity not known.
Exit Gas Temperature in Degrees F if known.
8. Estimated Emission from Refuse Incineration. Give amounts in tons per year and basis of estimates for each of the five listed pollutants.

REFUSE DISPOSAL AND INCINERATION

A

Company Name	Information for Year	(Agency Use Only)
Red Panther Chemical Company	1989 - 1994	
Address	Date	
Normandy & Patton Streets Clarksdale, MS 38614		

B

Description of Waste Materials		C	D	E
Type (Describe)	Maximum Amount Per Day (Pounds)	Amount Per Year (Tons)	Method of Disposal	1*
Bags & Fiber Drums	1000 lbs.	130	2 & 6	
Liquid		150	6	
#6 designates HAZARDOUS WASTE sites at Emelle, AL & Plaquemine, LA				

If Waste Disposal is by Incineration, Specify the Following:

1. Type of Incinerator:

- ☐ single chamber
☐ multiple Chamber
☐ Modified (describe)
☐ Other (describe)

- ☐ Rotary
☐ Flue Bed

N/A

2. Manufacturer's Name:

N/A

Model Number

Rated Capacity

3. Quantity Burned:

Pounds / Hour
 Pounds / Day
 Tons / Year
 Hours / Day
 Days / Year

Type Waste

4. Operating Schedule

*1 Disposal Method Codes

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

(AGENCY USE ONLY)

5. Auxiliary Fuel:

Type

N/A

Amount/Year (Specify Units)

Heat Content

Percent Sulfur

Percent Ash

Supplier's Name

6. Pollution Control Equipment:

Manufacturer

N/A

Model Number

% Efficiency

Type

GPM Water Flow
(If Wet Scrubber)

7. Stack Data:

Height

N/A

Feet

Inside Exit Diameter

Feet

Exit Gas Velocity

Feet/Sec.

Exit Gas Volume

SCFM

Exit Gas Temp.

°F.

8. Estimated Emissions From Refuse Incineration:

Name:

Basis of Estimates:

Particulates

N/A

Tons/Year

Sulfur Oxides

N/A

"

TABLE 1
CODE NUMBERS FOR CONTROL DEVICES

Vapor Control Equipment

00 Group — CONTROL BY COMBUSTION

- 01 catalytic combustion
- 02 furnace combustion
- 03 boiler firebox
- 04 steam injection flare
- 05 venturi flare
- 06 direct flame combustion (afterburner)

10 Group — ADSORBERS

- 10 activated carbon — nonregenerative
- 11 activated carbon — regenerative
- 12 silica gel — nonregenerative
- 13 silica gel — regenerative
- 14 lithium chloride
- 15 activated alumina
- 16 activated bauxite

20 Group — ABSORBERS

- 20 sieve plate tower
- 21 bubble-cap tower
- 22 packed tower

Particulate Matter —

Liquid Mist Control Equipment

30 Group — DRY SEPARATORS AND FILTERS

- 30 simple cyclones

31 high efficiency cyclones

- 32 settling chamber
- 33 simple filters
- 34 baghouse (shaking)
- 35 baghouse (reverse jet)
- 36 dry collector (dynamic)

40 Group — WET COLLECTORS

- 40 spray chamber — no baffles
- 41 spray chamber — with baffles
- 42 wet cyclones — rotoclone
- 43 wet dynamic precipitator
- 44 venturi scrubber
- 45 spray tower (not absorption — scrubbers)
- 46 packed tower (not absorption — scrubbers)
- 47 condensers (tube and shell); air
- 48 barometric condensor with hot wells

50 Group — ELECTRICAL PRECIPITATORS

- 50 single stage
- 51 double stage
- 52 precipitron

60 Group

- 60 Counteractant

70 Group — SPECIAL

- 71 Jet exhausters (air dilution)
- 72 Mist eliminators

80 Group — Other

- Specify

ORGANIC COMPOUND EMISSIONS
PERMIT APPLICATION ADDENDUM

NOTE: ALL DATA SHOULD REPRESENT MOST RECENT CALENDAR YEAR

GENERAL INFORMATION

Company Name Red Panther Chemical Company

Plant Address Normandy & Patton Streets

Mailing Address P.O. Box 550 City Clarksdale ZIP 38614

Person to Contact about Form Bobby Cain

Telephone 601-627-4731 Title Quality Control Manager

Approximate Number of Employees 100

Nature of Business (Include SIC) SIC #2789; Agricultural Pesticides

Normal Operating Schedule for Calendar Year 1991

24 Hrs/Day 7 Days/Week 52 Weeks/Year

Approximate Percent Seasonal Operation:

Dec.-Feb.	Mar.-May	June-Aug.	Sept.-Nov.
25%	25%	25%	25%

Are hydrocarbon or organic solvent containing materials such as cleaning fluids, coating, adhesives, inks, etc. used in you operation? ✓ Yes
No If yes, please complete the appropriate forms enclosed. Make additional copies if necessary.

Bobby Cain
Signature

9-20-91
Date

GENERAL MANUFACTURING

1. Type of Process:							
a. Reactor _____				c. Dryer _____			
b. Mixing Tank <u>✓</u>				d. Other (specify) _____			
2. Type of Organic Material Processed*: <u>T500/100</u>							
3. Density of Organic Material: <u>7.24</u> lb/gallon							
4. Amount of Organic Material: _____ gal/hour <u>26,000</u> gal/year							
5. Solvents in Organic Material:							
Type**	%	gal/hour	gal/year	Type**	%	gal/hour	gal/year
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
6. Solvents added to Organic Material:							
Type**	%	gal/hour	gal/year	Type**	%	gal/hour	gal/year
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
7. Solvents used for surface preparation, cleaning, etc. not previously included:							
Type**	%	gal/hour	gal/year	Type**	%	gal/hour	gal/year
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

* Acetone, MEK, butylacetate, cellosolve, toluene, styrene, resins, etc.

GENERAL MANUFACTURING

[illegible]

*Acetone, MEK, butylacetate, cellosolve, toluene, styrene, resins, etc.

GENERAL MANUFACTURING

1. Type of Process:							
a. Reactor _____				c. Dryer _____			
b. Mixing Tank <u>✓</u>				d. Other (specify) _____			
2. Type of Organic Material Processed*: <u>Cyclohexanone</u>							
3. Density of Organic Material: <u>7.89</u> lb/gallon							
4. Amount of Organic Material: _____ gal/hour <u>155,600</u> gal/year							
5. Solvents in Organic Material:							
Type**	%	gal/hour	gal/year	Type**	%	gal/hour	gal/year
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
6. Solvents added to Organic Material:							
Type**	%	gal/hour	gal/year	Type**	%	gal/hour	gal/year
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
7. Solvents used for surface preparation, cleaning, etc. not previously included:							
Type**	%	gal/hour	gal/year	Type**	%	gal/hour	gal/year
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

* Acetone, MEK, butylacetate, cellosolve, toluene, styrene, resins, etc.

FACILITY NAME Kal Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-01

1. Product stored; e.g. crude oil, gasoline, etc.	MSMA
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.6
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	30,000
7. Tank Capacity (gals)	20,000
8. Tank Diameter (feet)	10.7
9. Tank Height (feet)	32
10. Average Vapor Space Height (feet)	2
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-01

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME NEA TANTNER Chemical Co.FACILITY ADDRESS Box 550, Clarksdale, MS 386

TANK IDENTIFICATION NO./NAME

TN-02

1. Product stored; e.g. crude oil, gasoline, etc.	Caustic
2. True vapor pressure of product at storage temperature (PSIA/°F)	6.3/104
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	12.82
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	6,000
7. Tank Capacity (gals)	12,000
8. Tank Diameter (feet)	10
9. Tank Height (feet)	20
10. Average Vapor Space Height (feet)	2'
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-02

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS Box 550, Clarksdale, MS 38601

TANK IDENTIFICATION NO./NAME

TN-03

1. Product stored; e.g. crude oil, gasoline, etc.	MSMA
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.6
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	20,000
7. Tank Capacity (gals)	18,000
8. Tank Diameter (feet)	10
9. Tank Height (feet)	20
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-03

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-04

1. Product stored; e.g. crude oil, gasoline, etc.	Orchex 796
2. True vapor pressure of product at storage temperature (PSIA/°F) (mm Hg @ 20°C)	< 0.01
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	7.07
5. Molecular weight of product vapor at storage temperature lb/lb mole	~ 330
6. Throughput for the most recent calendar year (gals/year)	6,000
7. Tank Capacity (gals)	12,000
8. Tank Diameter (feet)	10
9. Tank Height (feet)	20
10. Average Vapor Space Height (feet)	N/A
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS PO. Box 550, Clarksdale, MS 38601

TANK IDENTIFICATION NO./NAME

TN-05

1. Product stored; e.g. crude oil, gasoline, etc.	MSMA
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.6
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	20,000
7. Tank Capacity (gals)	12,000
8. Tank Diameter (feet)	11.5
9. Tank Height (feet)	24
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-05

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Re Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-06

1. Product stored; e.g. crude oil, gasoline, etc.	Flo Mo Low Foam
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	8.4
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	10,000
7. Tank Capacity (gals)	18,000
8. Tank Diameter (feet)	11.5
9. Tank Height (feet)	24
10. Average Vapor Space Height (feet)	2
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-06

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Re Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-07

1. Product stored; e.g. crude oil, gasoline, etc.	Empty
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	N/A
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	N/A
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	8.1
9. Tank Height (feet)	16
10. Average Vapor Space Height (feet)	N/A
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-07

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	N/A

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38611

TANK IDENTIFICATION NO./NAME

TN-08

1. Product stored; e.g. crude oil, gasoline, etc.	Vegetable Oil
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	N/A
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	5,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	8.1
9. Tank Height (feet)	16
10. Average Vapor Space Height (feet)	2
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-08

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS PO Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-09

1. Product stored; e.g. crude oil, gasoline, etc.	MSMA
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.6
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	15,000
7. Tank Capacity (gals)	10,000
8. Tank Diameter (feet)	10.2
9. Tank Height (feet)	15
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-09

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-10

1. Product stored; e.g. crude oil, gasoline, etc.	MSMA
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.6
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	20,000
7. Tank Capacity (gals)	10,000
8. Tank Diameter (feet)	10.2
9. Tank Height (feet)	15
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-10

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38644

TANK IDENTIFICATION NO./NAME

TN-11

1. Product stored; e.g. crude oil, gasoline, etc.	MSMA
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.6
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	20,000
7. Tank Capacity (gals)	12,000
8. Tank Diameter (feet)	11
9. Tank Height (feet)	17
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-11

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum Diffuse
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Re/ Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-12

1. Product stored; e.g. crude oil, gasoline, etc.	Asano
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	7.99
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	60,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	8
9. Tank Height (feet)	19
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-12

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Gray
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Stainless Steel
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Re Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-13

1. Product stored; e.g. crude oil, gasoline, etc.	Asana
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	7.99
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	60,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	8
9. Tank Height (feet)	19
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-13

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Gray
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Stainless Steel
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Re Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-14

1. Product stored; e.g. crude oil, gasoline, etc.	Kerosene
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	N/A
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	5,000
7. Tank Capacity (gals)	10,000
8. Tank Diameter (feet)	10.7
9. Tank Height (feet)	18
10. Average Vapor Space Height (feet)	1.5
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-14

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Gray
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Aluminum
18. Tank seal condition: Good or Poor	Good
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Keokuk Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-15

1. Product stored; e.g. crude oil, gasoline, etc.	F10 MD1252
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	7.95
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	5,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	0.5
11. Tank Construction: Riveted or Welded	Plastic
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-15

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	White
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Plastic
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614-

TANK IDENTIFICATION NO./NAME

TN-16

1. Product stored; e.g. crude oil, gasoline, etc.	Armed CBTD
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	8.4
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	10,000
7. Tank Capacity (gals)	20,000
8. Tank Diameter (feet)	11.0
9. Tank Height (feet)	20
10. Average Vapor Space Height (feet)	1.5
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-16

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1938
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-17

1. Product stored; e.g. crude oil, gasoline, etc.	Methanol
2. True vapor pressure of product at storage temperature (PSIA/°F) (mm Hg @ 20°C)	96
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.5
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	40,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Plastic
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-17

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? .If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	White
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Plastic
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksville, MS 38614

TANK IDENTIFICATION NO./NAME

TN-18

1. Product stored; e.g. crude oil, gasoline, etc.	Ethanol
2. True vapor pressure of product at storage temperature (PSIA/°F) (mm Hg @ 20°C)	21
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.75
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	7,800
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	0.5
11. Tank Construction: Riveted or Welded	Plastic
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-18

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	White
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Plastic
18. Tank seal condition: Good or Poor	Good
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-19

1. Product stored; e.g. crude oil, gasoline, etc.	Ethylene Glycol
2. True vapor pressure of product at storage temperature (PSIA/°F) (mm Hg @ 20°C)	0.08
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	9.28
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	10,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	1.0
11. Tank Construction: Riveted or Welded	Plastic
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-19

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	White
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Plastic
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TN-20

1. Product stored; e.g. crude oil, gasoline, etc.	Aromatic 100
2. True vapor pressure of product at storage temperature (PSIA/°F) (mmHg/°F)	≈ 10/100
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	7.3
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	10,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	0.5
11. Tank Construction: Riveted or Welded	Plastic
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-20

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	White
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Plastic
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 386

TANK IDENTIFICATION NO./NAME

TN-21

1. Product stored; e.g. crude oil, gasoline, etc.	Aromatic 200
2. True vapor pressure of product at storage temperature (PSIA/°F) (mmHg at 25°C)	< 2
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	8.2
5. Molecular weight of product vapor at storage temperature lb/lb mole	166
6. Throughput for the most recent calendar year (gals/year)	10,000
7. Tank Capacity (gals)	6,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	0.5
11. Tank Construction: Riveted or Welded	Plastic
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-21

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	White
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Plastic
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.
FACILITY ADDRESS P.O. Box 550, Clarksdale MS 38614
TANK IDENTIFICATION NO./NAME

TN-22

1. Product stored; e.g. crude oil, gasoline, etc.	Chloronil 500
2. True vapor pressure of product at storage temperature (PSIA/°F)	5.72
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	10.32
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	60,000
7. Tank Capacity (gals)	10,000
8. Tank Diameter (feet)	9.9
9. Tank Height (feet)	10.5
10. Average Vapor Space Height (feet)	1.0
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TN-22

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1973
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Key Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TS-01

1. Product stored; e.g. crude oil, gasoline, etc.	Atlox 3404-F
2. True vapor pressure of product at storage temperature (PSIA/°F) (mmHg @ 20°C)	92
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	8.7
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	2,000
7. Tank Capacity (gals)	8,000
8. Tank Diameter (feet)	7.0
9. Tank Height (feet)	14.0
10. Average Vapor Space Height (feet)	1.0
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TS-01

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TS-02

1. Product stored; e.g. crude oil, gasoline, etc.	Atlox 3403F
2. True vapor pressure of product at storage temperature (PSIA/°F)	N/A
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	8.5
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	2,000
7. Tank Capacity (gals)	8,000
8. Tank Diameter (feet)	7.0
9. Tank Height (feet)	14.0
10. Average Vapor Space Height (feet)	1
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TS-02

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph

FACILITY NAME Rex Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614-

TANK IDENTIFICATION NO./NAME

TS-03

1. Product stored; e.g. crude oil, gasoline, etc.	Cythion
2. True vapor pressure of product at storage temperature (PSIA/°F)	0.00004
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	8.9
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	4,000
7. Tank Capacity (gals)	7,000
8. Tank Diameter (feet)	9
9. Tank Height (feet)	10
10. Average Vapor Space Height (feet)	0.5
11. Tank Construction: Riveted or Welded	welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TS-03

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With rim mounted secondary seal	N/A
Is the roof column supported? If yes, give	
a. Number of columns	N/A
b. Column diameter (inches)	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Gray
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Stainless Steel
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7 mph

FACILITY NAME Red Panther Chemical Co.FACILITY ADDRESS P.O. Box 550, Clarksdale, MS 38614

TANK IDENTIFICATION NO./NAME

TS-04

1. Product stored; e.g. crude oil, gasoline, etc.	Methanol
2. True vapor pressure of product at storage temperature (PSIA/°F) (mm Hg @ 20°C)	96
3. Reid vapor pressure of product at storage temperature (PSIA/°F)	N/A
4. Density of product stored at storage temperature (lbs/gal)	6.5
5. Molecular weight of product vapor at storage temperature lb/lb mole	N/A
6. Throughput for the most recent calendar year (gals/year)	168,400
7. Tank Capacity (gals)	10,000
8. Tank Diameter (feet)	10.2
9. Tank Height (feet)	15
10. Average Vapor Space Height (feet)	1.0
11. Tank Construction: Riveted or Welded	Welded
12. Type of Tank:	
Fixed Roof	✓
Floating Roof: External or Internal	
Variable Vapor Space	
Pressure	
Other, Describe	
13. For external floating roof tanks, Type Seals:	
Metallic shoe seal	
Primary seal only	N/A
With shoe mounted secondary seal	N/A
With rim mounted secondary seal	N/A
Liquid mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A
Vapor mounted resilient seal	
Primary seal only	N/A
With weather shield	N/A
With rim mounted secondary seal	N/A

TANK IDENTIFICATION NO./NAME

TS-04

14. For internal floating roof tanks, Type Seals:	
Liquid mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Vapor mounted resilient seal	
<u>Primary seal only</u>	N/A
<u>With rim mounted secondary seal</u>	N/A
Is the roof column supported? If yes, give	
a. <u>Number of columns</u>	N/A
b. <u>Column diameter (inches)</u>	N/A
15. Tank paint color; White, Aluminum (diffuse or specular), Light Gray, Medium Gray, Gray, Other (describe)	Aluminum (Diffuse)
16. Tank paint condition: Good or Poor	Good
17. Tank shell condition: Light rust, dense rust, gunite lined	Light Rust
18. Tank seal condition: Good or Poor	N/A
19. Date tank installed	1988
20. Tank modifications: Give date and describe	N/A
21. Is the tank equipped with a vapor recovery system? If yes, describe	No
22. Average wind velocity of the area (miles/hour)	7mph