Moats, Nikki B <nikki.b.moats@wv.gov>

R30-03900001-2025 (3 of 5) for your review

10 messages

Moats, Nikki B <nikki.b.moats@wv.gov> Wed, Jan 8, 2025 at 9:07 AM
To: michelle.l.young@chemours.com

Hello Michelle,

Attached you will find the Chemours - Belle Plant (3 of 5) permit and fact sheet for your review. If you've got any questions or comments, please reach out to me via email or at the phone number below.

I plan to start sending this out to notice next Monday (January 13th), but if you need more time for review, please let me know.

Sincerely,
Nikki B. Moats (he/him/his)
West Virginia Department of Environmental Protection
Division of Air Quality
Title V Permit Writer
304-414-1282 or 304-926-0499 ext 41282

2 attachments

DPFactSheet R30-03900001-2025 (3 of 5).doc
108K

DPPermit R30-03900001-2025 (3 of 5).docx
301K

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com> Thu, Jan 9, 2025 at 2:55 PM
To: "Moats, Nikki B" <nikki.b.moats@wv.gov>

Nikki,

Could you please give us an extra week to review?

Thank you,

Michelle L. Young, MS, CHMM
Senior Environmental Competency Leader | PSM Leader

RC14001 Leader | Site Communications Leader | PC&I Global Ethics Champion

On-Site Office Hours:

Mondays 7-4

Wednesdays 7-3

+1 304 357 1319 **o**
+1 304 542 6697 **m**

The Chemours Company
901 W. DuPont Avenue
Belle, WV 25015

LinkedIn | Twitter | Chemours.com | 10x2030

From: Moats, Nikki B <nikki.b.moats@wv.gov>
Sent: Wednesday, January 8, 2025 9:08 AM
To: Young, Michelle L <MICHELLE.L.YOUNG@chemours.com>
Subject: [EXT] R30-03900001-2025 (3 of 5) for your review

[Quoted text hidden]

Moats, Nikki B <nikki.b.moats@wv.gov> Thu, Jan 9, 2025 at 3:10 PM
To: "Young, Michelle L" <MICHELLE.L.YOUNG@chemours.com>

Michelle,

Sure, I can do that. I'll plan to start the process on the 20th if I don't hear back from you before then.

Thanks,
Nikki
[Quoted text hidden]

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com> Thu, Jan 9, 2025 at 3:38 PM
To: "Moats, Nikki B" <nikki.b.moats@wv.gov>

Sounds good. Thank you!

[Quoted text hidden]
[Quoted text hidden]

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com> Mon, Jan 20, 2025 at 7:55 AM
To: "Moats, Nikki B" <nikki.b.moats@wv.gov>

Nikki,

Sorry for last minute comments, last week was crazy.

In section 1.1

1. ACR027, the emission point should be 561.013, not 561.0013
2. Under 1.1, Some of the out of service tanks have been removed from the permit,
    a. 551.005 - 101E Tank,
    b. 551.004 - 101W Tank,
    c. 552.015 – 46B1 Tank (out of service in 2018),
    d. 565.008 - S Tank,
    e. 565.005 - V Tank (out of service in 2018),
    f. 561.0014 - W Tank,

    while others remain,

    g. 554.004 - 88C Tank,
    h. 552.004 - 67B1 Tank,
    i. 525.003 - 372 Tank,
    j. 561.003 - 1 Tank
    k. 552.014 - 46A1 Tank,

What is the logic behind removal versus keeping?

Also, this was completely our mistake, we need to move ACR 201 and ACR202 up to the HM process instead of the MMA process. It still operates the same and has the same requirements. Will that be a problem?

Thank you,

Michelle L. Young, MS, CHMM
Senior Environmental Competency Leader | PSM Leader

RC14001 Leader | Site Communications Leader | PC&I Global Ethics Champion

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Wednesdays 7-3

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Belle, WV 25015

LinkedIn | Twitter | Chemours.com | 10x2030

From: Moats, Nikki B <nikki.b.moats@wv.gov>
Sent: Thursday, January 9, 2025 3:10 PM

[Quoted text hidden]

[Quoted text hidden]
[Quoted text hidden]

Moats, Nikki B <nikki.b.moats@wv.gov> Tue, Jan 21, 2025 at 8:12 AM
To: "Young, Michelle L" <MICHELLE.L.YOUNG@chemours.com>

Michelle,

I went through and double checked each of these against the current R13 permits, and I noticed a few of them are still present in the most current version, so I cannot remove those.

For the others, would you have 5-10 minutes to talk through them with me sometime today? When I originally gave you the date, it completely slipped my mind that we weren't in yesterday due to the holiday.

As far as moving ACR 201 and 202 I'll get in touch with my supervisor before we talk and I can let you know what we come up with then.

Thanks,
Nikki
[Quoted text hidden]

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com> Tue, Jan 21, 2025 at 8:13 AM
To: "Moats, Nikki B" <nikki.b.moats@wv.gov>

Yes, just let me know when you are available.

Michelle L. Young, MS, CHMM
Senior Environmental Competency Leader | RC14001 Leader | Site Communications Leader

PC&I Ethics Champion

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Mondays 7-3:30

Wednesdays 7-3:30

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From: Moats, Nikki B <nikki.b.moats@wv.gov>
Sent: Tuesday, January 21, 2025 8:12 AM
To: Young, Michelle L <MICHELLE.L.YOUNG@chemours.com>
Subject: Re: [EXT] R30-03900001-2025 (3 of 5) for your review

External email. Confirm links and attachments before opening.

[Quoted text hidden]
[Quoted text hidden]

Moats, Nikki B <nikki.b.moats@wv.gov> Tue, Jan 21, 2025 at 8:14 AM
To: "Young, Michelle L" <MICHELLE.L.YOUNG@chemours.com>

I don't have any meetings scheduled for today, so I am available pretty much all day.
[Quoted text hidden]

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com> Tue, Jan 21, 2025 at 8:19 AM
To: "Moats, Nikki B" <nikki.b.moats@wv.gov>

How about 2?

Michelle L. Young, MS, CHMM
Senior Environmental Competency Leader | RC14001 Leader | Site Communications Leader

PC&I Ethics Champion

On-Site Office Hours:

Mondays 7-3:30

Wednesdays 7-3:30

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901 W. DuPont Avenue
Belle, WV 25015

LinkedIn | Twitter | Chemours.com | 10x2030

From: Moats, Nikki B <nikki.b.moats@wv.gov>
Sent: Tuesday, January 21, 2025 8:14 AM
[Quoted text hidden]

[Quoted text hidden]

Moats, Nikki B <nikki.b.moats@wv.gov> Tue, Jan 21, 2025 at 8:20 AM
To: "Young, Michelle L" <MICHELLE.L.YOUNG@chemours.com>

That sounds good to me
[Quoted text hidden]

Received
April 1, 2024
WV DEP/Div of Air Quality

Division of Air Quality Permit Application Submittal

Please find attached a permit application for : Chemours; Belle

[Company Name; Facility Location]

- DAQ Facility ID (for existing facilities only): 039-00001
- Current 45CSR13 and 45CSR30 (Title V) permits associated with this process (for existing facilities only): R13-1002; R13-1628; R13-2742

- Type of NSR Application (check all that apply):
  - ☐ Construction
  - ☐ Modification
  - ☐ Class I Administrative Update
  - ☐ Class II Administrative Update
  - ☐ Relocation
  - ☐ Temporary
  - ☐ Permit Determination

- Type of 45CSR30 (TITLE V) Application:
  - ☐ Title V Initial
  - ☑ Title V Renewal
  - ☐ Administrative Amendment**
  - ☐ Minor Modification**
  - ☐ Significant Modification**
  - ☐ Off Permit Change

****If the box above is checked, include the Title V revision information as ATTACHMENT S to the combined NSR/Title V application.**

- Payment Type:
  - ☑ Credit Card (Instructions to pay by credit card will be sent in the Application Status email.)
  - ☐ Check (Make checks payable to: WVDEP – Division of Air Quality)
    Mail checks to:
    WVDEP – DAQ – Permitting
    Attn: NSR Permitting Secretary
    601 57th Street, SE
    Charleston, WV 25304

Please wait until DAQ emails you the Facility ID Number and Permit Application Number. Please add these identifiers to your check or cover letter with your check.

- If the permit writer has any questions, please contact (all that apply):
  - ☐ Responsible Official/Authorized Representative
    - Name:
    - Email:
    - Phone Number:
  - ☑ Company Contact
    - Name: Michelle Young
    - Email: michelle.l.young@chemours.com
    - Phone Number: 304.357.1319
  - ☐ Consultant
    - Name:
    - Email:
    - Phone Number:

TABLE OF CONTENTS

Cover Document for Confidential Information

Company Name	Chemours	**Responsible Official**		
Company Address	901 W. DuPont Ave.	**Confidential Information Designee in State of WV**	**Name**	Nick Martino
	Belle, WV 25015		**Title**	Site Manager
			Address	901 West DuPont Ave.
Person/Title Submitting Confidential Information	Michelle L. Young			Belle, WV 25015
	Sr. Environmental Competency Leader		**Phone**	304-357-1430
			Fax	304-357-1230

Reason for Submittal Of Confidential Information Permit renewal application for Group 3 Title V Permit

Identification of Confidential Information	**Rationale for Confidential Claim 45CSR31-4.1a-e**	**Confidential Treatment Time Period**
Attachment B Plot Plan Drawings Attachment C Process Flow Diagrams/Process Description Attachment D Attachment E	a. Chemours continues to claim business confidentiality protection for this business. The claim has not expired by its term, or been waived or withdrawn. The confidential information should continue to be maintained as such for an indefinite time period. See attached for b-e	Permanent

Responsible Official Signature:	
Responsible Official Title:	Site Manager
Date Signed:	4/1/24

NOTE: Must be signed and dated in **BLUE INK**.

Rationale for Confidentiality Claim (Cont.)

b. Information claimed confidential is not available to the general public. Within the company, Chemours has distributed technical information on a need-to-know basis and has used its business confidentiality policy to prevent inadvertent dissemination of information. This policy includes:

   * Marking of business confidential documents,
   * Limited distribution of documents,
   * Shredding of confidential documents before disposal.

   Employees are aware of the competitive nature of their business and are trained in guarding confidential information.

c. Information revealing the process technology in this submittal is not reasonably obtainable by persons other than Chemours employees who need to know. To maintain the confidentiality of such information, Chemours employees involved with confidential information sign a confidentiality agreement as stipulated by Chemours Legal. Transmittal of confidential information is done by certified mail or is delivered in person by a Chemours employee.

d. There is no statute that has been reviewed that requires disclosure of information claimed to be confidential.

e. Chemours claims business confidentiality protection for the information submitted since disclosure would allow competent engineers within a competitor's company to determine the manner or process by which Chemours produces this product and would provide competitors information without paying for technology or conducting research and development necessary to obtain the technology.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. **Name of Applicant (As registered with the WV Secretary of State's Office):** The Chemours Company FC, LLC	2. **Facility Name or Location:** Chemours Belle Plant, Belle, WV
3. **DAQ Plant ID No.:** 039-00001	4. **Federal Employer ID No. (FEIN):** 911077773

5. **Permit Application Type:**

☐ Initial Permit — When did operations commence? 1926
☑ Permit Renewal — What is the expiration date of the existing permit? 10/1/24
☐ Update to Initial/Renewal Permit Application

6. **Type of Business Entity:**

☐ Corporation ☐ Governmental Agency ☑ LLC
☐ Partnership ☐ Limited Partnership

7. **Is the Applicant the:**

☐ Owner ☑ Operator ☐ Both

If the Applicant is not both the owner and operator, please provide the name and address of the other party.
Mitsubishi Chemical America
6070 Poplar Ave, Ste. 600
Memphis, TN 38119

8. **Number of onsite employees:** 130

9. **Governmental Code:**

☑ Privately owned and operated; 0
☐ Federally owned and operated; 1
☐ State government owned and operated; 2
☐ County government owned and operated; 3
☐ Municipality government owned and operated; 4
☐ District government owned and operated; 5

10. **Business Confidentiality Claims**

Does this application include confidential information (per 45CSR31)? ☑ Yes ☐ No

If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's *"PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY"* guidance.

11. Mailing Address		
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	**State:** WV	**Zip:** 25015
Telephone Number: 304-357-1000	**Fax Number:** 304-357-1230	

12. Facility Location (Physical Address)		
Street: 901 W DuPont Avenue	**City:** Belle	**County:** Kanawha
UTM Easting: 451.90 km	**UTM Northing:** 4232.60 km	**Zone:** ☑ 17 or ☐ 18
Directions: I-64 to Belle exit, take Rt. 60 east to Belle exit, turn right onto Dupont Avenue, then turn left at plant.		
Portable Source? ☐ Yes ☑ No		
Is facility located within a nonattainment area? ☐ Yes ☑ No		**If yes, for what air pollutants?**
Is facility located within 50 miles of another state? ☐ Yes ☑ No		**If yes, name the affected state(s).**
Is facility located within 100 km of a Class I Area[1]? ☐ Yes ☑ No **If no, do emissions impact a Class I Area[1]?** ☐ Yes ☑ No		**If yes, name the area(s).**

[1] *Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.*

13. Contact Information		
Responsible Official: Nicholas Martino		**Title:** Plant Manager
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	**State:** WV	**Zip:** 25015
Telephone Number: 304+-357-1430	**Cell Number:**	
E-mail address: nicholas.scott.martino@chemours.com		
Environmental Contact: Michelle Young		**Title:** Sr. Env. Compentency Leader
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	**State:** WV	**Zip:** 25015
Telephone Number: 304-357-1319	**Cell Number:** 304-542-6697	
E-mail address: michelle.l.young@chemours.com		
Application Preparer: Environmental Contact		**Title:**
Company:		
Street or P.O. Box:		
City:	**State:**	**Zip:**
Telephone Number:	**Cell Number:**	
E-mail address:		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Acrylics	ethyl methyacrylate, 2-ethylhexyl methacrylate	325211	2821
Other areas	VAZO, DME, DMS	325199	2869

Provide a general description of operations.

The Belle plant manufactures various organic chemicals. This renewal application is for group 3 of 5 which is for the acrylics unit.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A.**

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B.** For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C.** Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
☐ SIP	☐ FIP
☑ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☑ NESHAP (45CSR34)	☐ Nonattainment NSR (45CSR19)
☐ Section 111 NSPS	☐ Section 112(d) MACT standards
☐ Section 112(g) Case-by-case MACT	☐ 112(r) RMP
☐ Section 112(i) Early reduction of HAP	☐ Consumer/commercial prod. reqts., section 183(e)
☐ Section 129 Standards/Reqts.	☑ Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	☐ Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
☐ 45CSR4 State enforceable only rule	☐ Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	☐ Compliance Assurance Monitoring (40CFR64)
☐ Cross-State Air Pollution Rule (45CSR43)	

19. Non Applicability Determinations
List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.
☐ Permit Shield

19. Non Applicability Determinations ***(Continued)*** *- Attach additional pages as necessary.*

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☐ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. 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*).

see current permit

☐ Permit Shield

For all facility-wide 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 and/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.)

see current permit

Are you in compliance with all facility-wide applicable requirements? ☑ Yes ☐ No

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

20. Facility-Wide Applicable Requirements *(Continued)* - *Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

☐ Permit Shield

For all facility-wide 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 and/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.)

Are you in compliance with all facility-wide applicable requirements? ☑ Yes ☐ No

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

21. **Active Permits/Consent Orders**		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit *(if any)*
CO-R21-97-31	09/06/1997	
CO-R21-C-2001-10A(97)		
R13-1002		5/21/19
R13-1628		7/17/07
R13-2742		04/01/08
PD19-005		3/7/19

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance MM/DD/YYYY	Permit Condition Number
R13-2641	12/12/2005	

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	0
Nitrogen Oxides (NO_X)	0
Lead (Pb)	0
Particulate Matter ($PM_{2.5}$)[1]	0
Particulate Matter (PM_{10})[1]	0
Total Particulate Matter (TSP)	0
Sulfur Dioxide (SO_2)	0
Volatile Organic Compounds (VOC)	17
Hazardous Air Pollutants[2]	Potential Emissions
Methyl Methacrylate	9
Methanol	6
Regulated Pollutants other than Criteria and HAP	Potential Emissions
R-22	leaks only

[1] $PM_{2.5}$ and PM_{10} are components of TSP.
[2] For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)		
☑	1.	Air compressors and pneumatically operated equipment, including hand tools.
☐	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
☑	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
☑	4.	Bathroom/toilet vent emissions.
☑	5.	Batteries and battery charging stations, except at battery manufacturing plants.
☑	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
☐	7.	Blacksmith forges.
☑	8.	Boiler water treatment operations, not including cooling towers.
☐	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
☐	10.	CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
☑	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
☑	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
☑	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
☑	14.	Demineralized water tanks and demineralizer vents.
☐	15.	Drop hammers or hydraulic presses for forging or metalworking.
☐	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
☐	17.	Emergency (backup) electrical generators at residential locations.
☑	18.	Emergency road flares.
☐	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO_2, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:

24. Insignificant Activities (Check all that apply)		
☐	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:
☐	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
☑	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
☐	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
☑	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
☑	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
☑	26.	Fire suppression systems.
☑	27.	Firefighting equipment and the equipment used to train firefighters.
☑	28.	Flares used solely to indicate danger to the public.
☑	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
☐	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
☑	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
☐	32.	Humidity chambers.
☑	33.	Hydraulic and hydrostatic testing equipment.
☑	34.	Indoor or outdoor kerosene heaters.
☑	35.	Internal combustion engines used for landscaping purposes.
☐	36.	Laser trimmers using dust collection to prevent fugitive emissions.
☐	37.	Laundry activities, except for dry-cleaning and steam boilers.
☐	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
☑	39.	Oxygen scavenging (de-aeration) of water.
☐	40.	Ozone generators.

24. Insignificant Activities (Check all that apply)		
☑	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
☑	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
☑	43.	Process water filtration systems and demineralizers.
☐	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
☑	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
☑	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
☐	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
☐	48.	Shock chambers.
☐	49.	Solar simulators.
☑	50.	Space heaters operating by direct heat transfer.
☑	51.	Steam cleaning operations.
☑	52.	Steam leaks.
☑	53.	Steam sterilizers.
☑	54.	Steam vents and safety relief valves.
☑	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
☑	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
☐	57.	Such other sources or activities as the Director may determine.
☐	58.	Tobacco smoking rooms and areas.
☑	59.	Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D.**
26. Emission Units
For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E.**
For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F.**
27. Control Devices
For each control device listed in the **Title V Equipment Table,** fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G.**
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H.**

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

Note: This Certification must be signed by a responsible official as defined in 45CSR§30-2.38.

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)

Name:	Title:
Nicholas Martino	Plant Manager

Responsible official's signature:

Signature: _____ Signature Date: 4/1/24

(Must be signed and dated in blue ink or have a valid electronic signature)

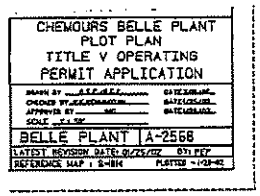
Note: Please check all applicable attachments included with this permit application:

☑	ATTACHMENT A: Area Map
☑	ATTACHMENT B: Plot Plan(s)
☑	ATTACHMENT C: Process Flow Diagram(s)
☑	ATTACHMENT D: Equipment Table
☑	ATTACHMENT E: Emission Unit Form(s)
☐	ATTACHMENT F: Schedule of Compliance Form(s)
☑	ATTACHMENT G: Air Pollution Control Device Form(s)
☐	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

Attachment B – Plot Plan

REDACTED CLAIM OF CONFIDENTIALITY



Attachment C – Process Flow Diagrams and Descriptions

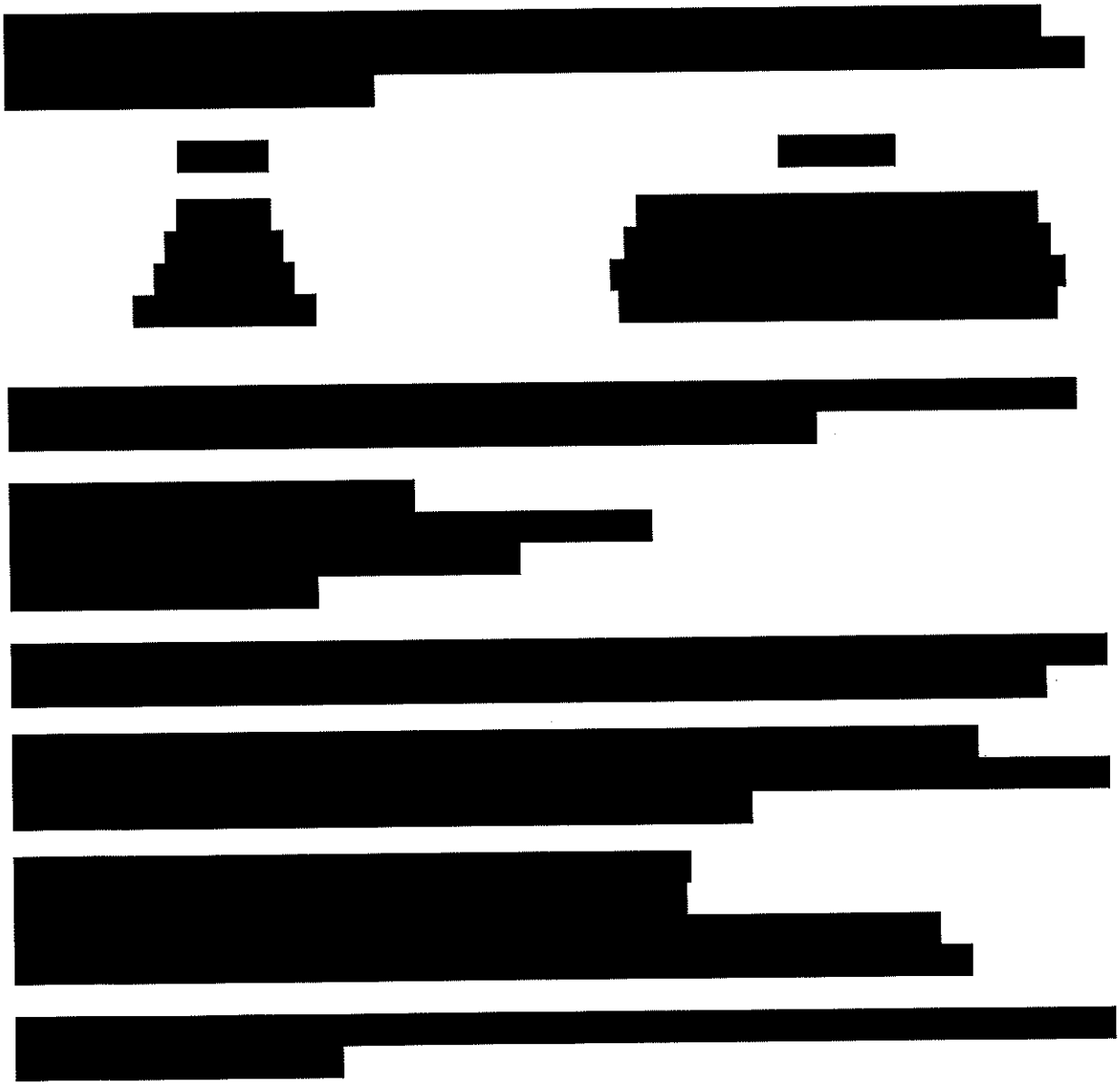
Attachment C Process Description

There are currently two processes in Group 3: Higher Monomers (HM) and MMA Stripping.

Since the 2018 permit, multiple tank changes have occurred in the HM and MMA processes. The attached table shows the 2018 tank service and the current tank service.

As a result of the elimination of tanks, the sum of the Maximum Potential Emissions for the process units has decreased. Also, the MPE for many of the tanks was calculated as if the total production passed through each tank. Although this is not a likely scenario, it is possible and would represent the maximum possible emissions for each tank. It should be noted that the average unit throughput has decreased since 2018.

I. Higher Monomers



Attachment C Process Description

[redacted]

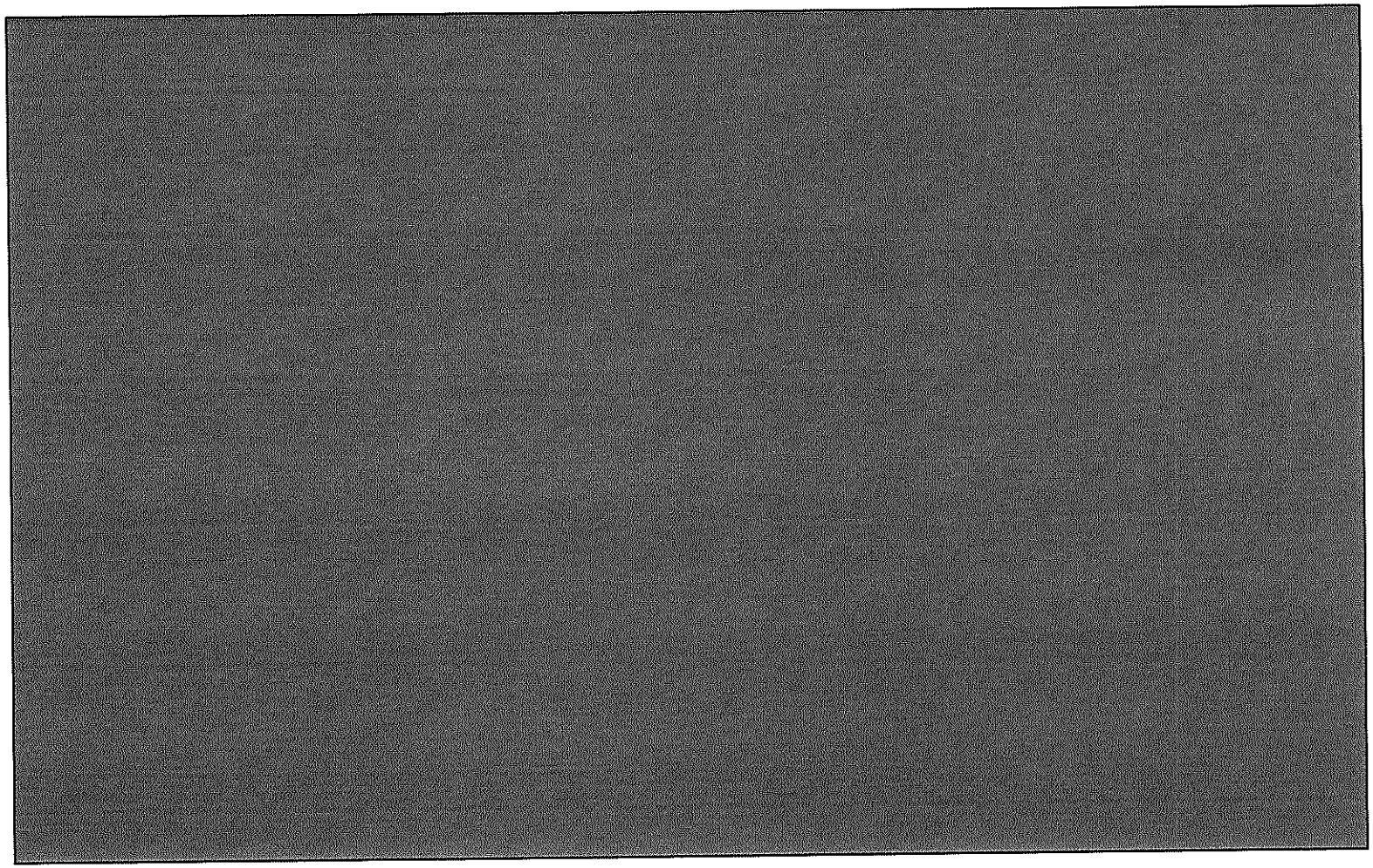
Attachment C Process Description

[redacted]

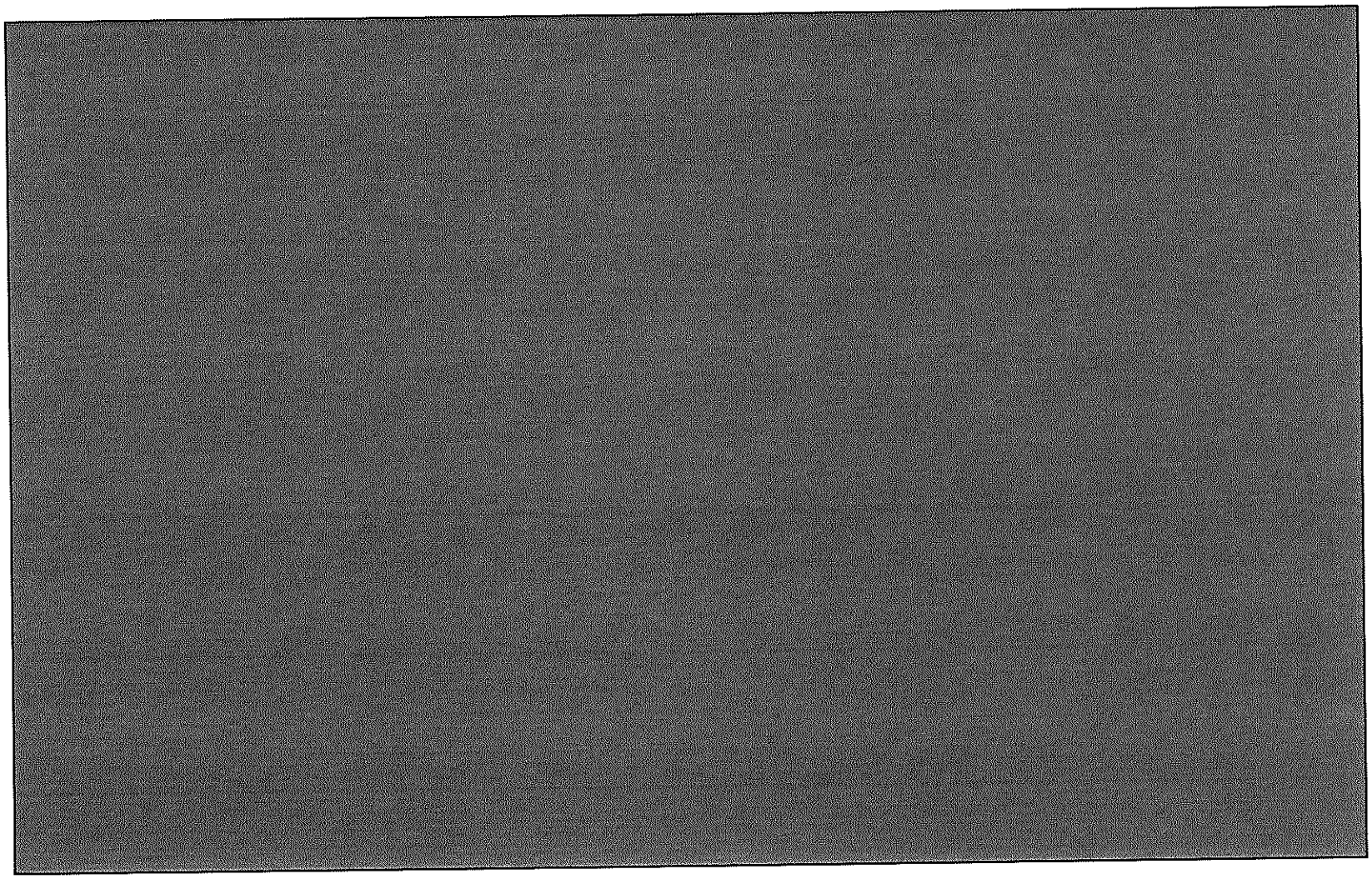
II. MMA Stripping

[redacted]

Belle MMA and Higher Monomers

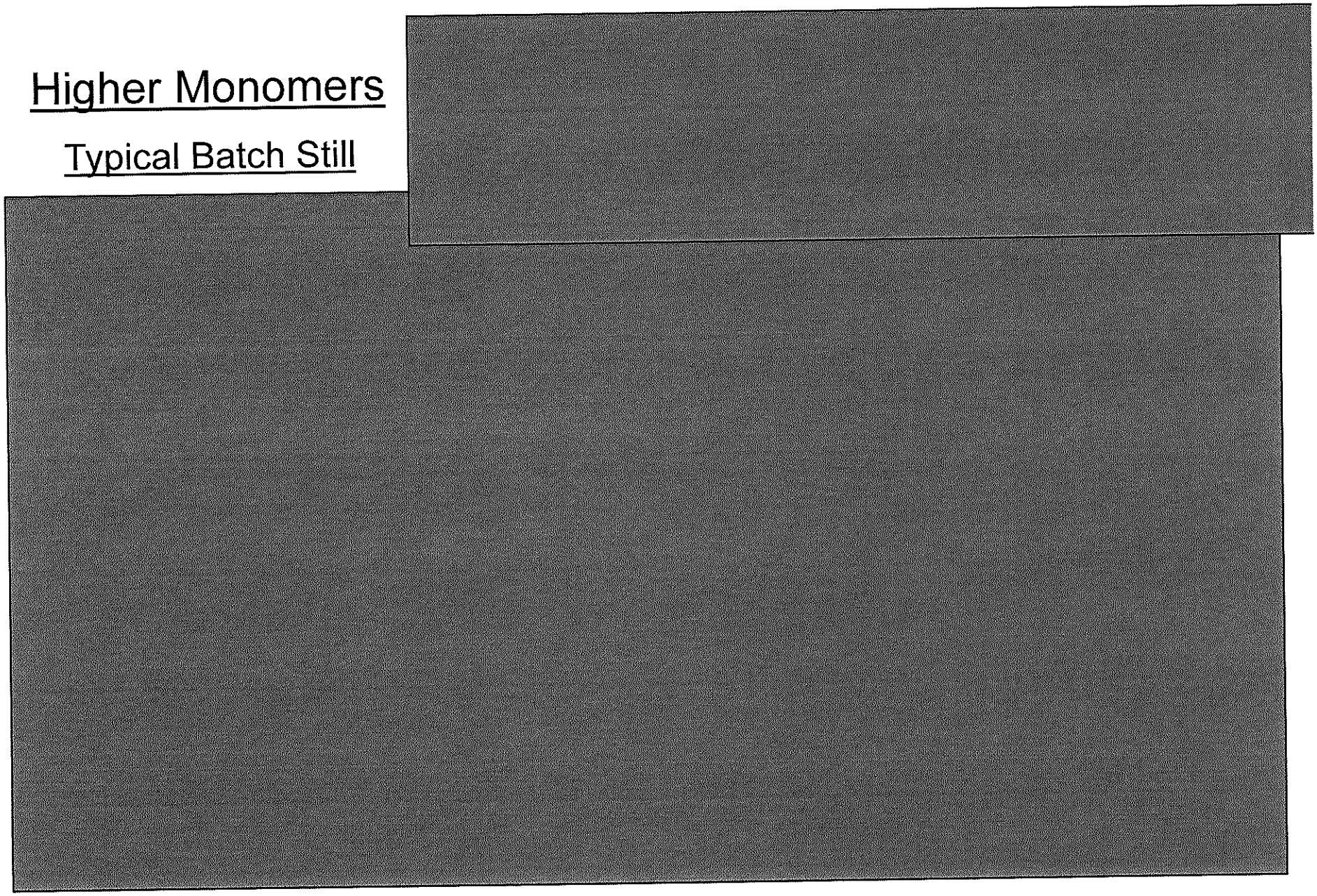


Methyl Methacrylate Stripper



Higher Monomers

Typical Batch Still



Attachment D – Equipment Table

Received
January 21, 2025
WV DEP/Div of Air Quality

Emission Unit ID	Emission Point ID	Equipment Description	Emission Unit Description	Design Capacity	Year Installed	Control Device
Higher Monomers						
ACR001	553.010	REDACTED	Distillation apparatus	REDACTED	1936	None
ACR002	551.001	REDACTED	Distillation apparatus	REDACTED	1965	None
ACR003	552.009	REDACTED	Distillation apparatus	REDACTED	1970	None
ACR004	552.001	REDACTED	Distillation apparatus	REDACTED	1935/1973	None
ACR005	553.010	REDACTED	Heat exchanger	N/A	Replaced 2013	None
ACR006	551.001	REDACTED	Heat exchanger	N/A	1965	None
ACR007	552.009	REDACTED	Heat exchanger	N/A	2011	None
ACR008	552.001	REDACTED	Heat exchanger	N/A	1935/1973	None
ACR009	553.010	REDACTED	Heat exchanger	N/A	Replaced 2013	None
ACR010	551.001	REDACTED	Heat exchanger	N/A	1965	None
ACR011	552.009	REDACTED	Heat exchanger	N/A	1970	None
ACR012	552.001	REDACTED	Heat exchanger	N/A	1935/1973	None
ACR013	553.010	REDACTED	Vacuum equipment	REDACTED	1936	None
ACR014	551.001	REDACTED	Vacuum equipment	REDACTED	1965	None
ACR015	552.009	REDACTED	Vacuum equipment	REDACTED	1967	None
ACR016	552.001	REDACTED	Vacuum equipment	REDACTED	1935/1973	None
	Fug Em	REDACTED	Sump	REDACTED	Pre-1970	None
	Fug Em	REDACTED	Sump	REDACTED	2014	None
	Fug Em	REDACTED	Sump	N/A	Approx 1973	None
ACR017	552.012	REDACTED	Storage tank	REDACTED	1942	None
ACR018	552.003	REDACTED	Storage tank	REDACTED	2014	None
ACR022	561.008	REDACTED	Storage tank	REDACTED	2014	None
ACR023	551.002	REDACTED	Storage tank	REDACTED	1936	None
ACR027	561.013	REDACTED	Storage tank	REDACTED	2014	None
ACR029	561.0014	REDACTED	Storage tank	REDACTED	1970	None
ACR030	554.008	REDACTED	Storage tank	REDACTED	1965	None
ACR037	554.003	REDACTED	Storage tank	REDACTED	1965	None
ACR031	554.004	REDACTED	Storage tank	REDACTED	1965	None
ACR032	554.002	REDACTED	Storage tank	REDACTED	1936	None
ACR034	552.014	REDACTED	Storage tank	REDACTED	1940	None
ACR048	552.015	REDACTED	Storage tank	REDACTED		None
ACR035	552.004	REDACTED	Storage tank	REDACTED	1940	None
ACR041	551.012	REDACTED	Storage tank	REDACTED	1940	None
ACR038	551.005	REDACTED	Storage tank	REDACTED	1937	None
ACR039	551.004	REDACTED	Storage tank	REDACTED	1937	None
ACR036	551.007	REDACTED	Storage tank	REDACTED	1965	None
ACR040A	565.009A	REDACTED	Storage Tank	REDACTED	1956	ACRCD2
ACR042	551.006	REDACTED	Storage tank	REDACTED	1959	None
ACR044	565.008	REDACTED	Storage tank	REDACTED	1947	None
ACR046	565.005	REDACTED	Storage tank	REDACTED		None
ACR047	552.013	REDACTED	Storage tank	REDACTED	1939	None
ACR128	564.109	REDACTED	Storage tank	REDACTED	2013	None
ACR201	561.005	REDACTED	Storage tank	REDACTED	1993	ACRCD1
ACR202	525.002	REDACTED	Storage tank	REDACTED	1936	None
MMA Stripping & Storage						
ACR203	525.003	REDACTED	Storage tank	REDACTED	1942	None
ACR204	525.004	REDACTED	Distillation apparatus	REDACTED	1943	None
ACR205	561.003/561.004	REDACTED	Jacketed pipe	N/A	1989	None
ACR206	525.004	REDACTED	Heat exchanger	N/A	1940	None
ACR207	525.004	REDACTED	Vacuum system	N/A	1989	None
ACR208	561.003	REDACTED	Storage tank	REDACTED	1962	None
ACR210	581.001 581.002	REDACTED	Loading rack	N/A	N/A	None

Control Devices										
ACRCD1	561.005	Internal floating roof	Floating roof	REDACTED	2011	N/A				
ACRCD2	565.009A	Internal floating roof	Floating roof	REDACTED	2008	N/A				

Emission Unit ID	Emission Point ID	Equipment Description	Emission Unit Description	Design Capacity	Year Installed	Control Device
Higher Monomers						
ACR001	553.010	REDACTED	Distillation apparatus	REDACTED	1936	None
ACR002	551.001	REDACTED	Distillation apparatus	REDACTED	1965	None
ACR003	552.009	REDACTED	Distillation apparatus	REDACTED	1970	None
ACR004	552.001	REDACTED	Distillation apparatus	REDACTED	1935/1973 Replaced	None
ACR005	553.010	REDACTED	Heat exchanger	N/A	2013	None
ACR006	551.001	REDACTED	Heat exchanger	N/A	1965	None
ACR007	552.009	REDACTED	Heat exchanger	N/A	2011	None
ACR008	552.001	REDACTED	Heat exchanger	N/A	1935/1973 Replaced	None
ACR009	553.010	REDACTED	Heat exchanger	N/A	2013	None
ACR010	551.001	REDACTED	Heat exchanger	N/A	1965	None
ACR011	552.009	REDACTED	Heat exchanger	N/A	1970	None
ACR012	552.001	REDACTED	Heat exchanger	N/A	1935/1973	None
ACR013	553.010	REDACTED	Vacuum equipment	REDACTED	1936	None
ACR014	551.001	REDACTED	Vacuum equipment	REDACTED	1965	None
ACR015	552.009	REDACTED	Vacuum equipment	REDACTED	1967	None
ACR016	552.001	REDACTED	Vacuum equipment	REDACTED	1935/1973	None
	Fug Em	REDACTED	Sump	REDACTED	Pre-1970	None
	Fug Em	REDACTED	Sump	REDACTED	2014	None
	Fug Em	REDACTED	Sump	N/A	Approx 1973	None
ACR017	552.012	REDACTED	Storage tank	REDACTED	1942	None
ACR018	552.003	REDACTED	Storage tank	REDACTED	2014	None
ACR022	561.008	REDACTED	Storage tank	REDACTED	2014	None
ACR023	551.002	REDACTED	Storage tank	REDACTED	1936	None
ACR027	561.013	REDACTED	Storage tank	REDACTED	2014	None
ACR029	561.0014	REDACTED	Storage tank	REDACTED	1970	None
ACR030	554.008	REDACTED	Storage tank	REDACTED	1965	None
ACR037	554.003	REDACTED	Storage tank	REDACTED	1965	None
ACR031	554.004	REDACTED	Storage tank	REDACTED	1965	None
ACR032	554.002	REDACTED	Storage tank	REDACTED	1936	None
ACR034	552.014	REDACTED	Storage tank	REDACTED	1940	None
ACR048	552.015	REDACTED	Storage tank	REDACTED		None
ACR035	552.004	REDACTED	Storage tank	REDACTED	1940	None
ACR041	551.012	REDACTED	Storage tank	REDACTED	1940	None
ACR038	551.005	REDACTED	Storage tank	REDACTED	1937	None
ACR039	551.004	REDACTED	Storage tank	REDACTED	1937	None
ACR036	551.007	REDACTED	Storage tank	REDACTED	1965	None
ACR040A	565.009A	REDACTED	Storage Tank	REDACTED	1956	ACRCD2
ACR042	551.006	REDACTED	Storage tank	REDACTED	1959	None
ACR044	565.008	REDACTED	Storage tank	REDACTED	1947	None
ACR046	565.005	REDACTED	Storage tank	REDACTED		None
ACR047	552.013	REDACTED	Storage tank	REDACTED	1939	None
ACR128	564.109	REDACTED	Storage tank	REDACTED	2013	None
MMA Stripping & Storage						
ACR201	561.005	REDACTED	Storage tank	REDACTED	1993	ACRCD1
ACR202	525.002	REDACTED	Storage tank	REDACTED	1936	None
ACR203	525.003	REDACTED	Storage tank	REDACTED	1942	None
ACR204	525.004	REDACTED	Distillation apparatus	REDACTED	1943	None
ACR205	561.003/5(	REDACTED	Jacketed pipe	N/A	1989	None
ACR206	525.004	REDACTED	Heat exchanger	N/A	1940	None
ACR207	525.004	REDACTED	Vacuum system	N/A	1989	None
ACR208	561.003	REDACTED	Storage tank	REDACTED	1962	None
ACR210	561.001 561.002	REDACTED	Loading rack	N/A	N/A	None

Control Devices										
ACRCD1	561.005	Internal floating roof	Floating roof	REDACTED	2011	N/A				
ACRCD2	565.009A	Internal floating roof	Floating roof	REDACTED	2008	N/A				

Attachment E – Emission Unit Forms

ATTACHMENT E - Emission Unit Form

Emission Unit Description	Distillation apparatus	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR001	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Matt Corcoran & Co.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1930	1936	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR013	See ACR013
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013

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.).

See ACR013

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.

See ACR013

Permit Shield: See ACR013

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.)

See ACR013

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

Emission Unit Description	Distillation apparatus	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR001	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Matt Corcoran & Co.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1930	1936	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR013	See ACR013
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013

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.).

See ACR013

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.

See ACR013

Permit Shield: See ACR013

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.)

See ACR013

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

Emission Unit Description	Distillation apparatus	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR002	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Camden Copper Works	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1965	1965	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR014	See ACR014
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014

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.).

See ACR014

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.

See ACR014

Permit Shield: See ACR014

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.)

See ACR014

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

Emission Unit Description	Distillation apparatus	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR003	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Joseph Oat & Sons, Inc.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1970	1970	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR015	See ACR015
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015

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.).

See ACR015

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.

See ACR015

Permit Shield: See ACR015

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.)

See ACR015

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

Emission Unit Description	Heat exchanger	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR004	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
A.O. Smith	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1935/1973	1935/1973	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR016	See ACR016
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016

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.).

See ACR016

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.

See ACR016

Permit Shield: See ACR016

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.)

See ACR016

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

Emission Unit Description	Heat exchanger	
Emission unit ID number: **ACR005**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Ward Tank & Heat Exchanger Corporation	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 2013	**Installation Date:** 2013	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR013	See ACR013
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013

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.).

See ACR013

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.

See ACR013

Permit Shield: See ACR013

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.)

See ACR013

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

Emission Unit Description	Heat exchanger	
Emission unit ID number: ACR006	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Camden Copper Works	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1965	**Installation Date:** 1965	**Modification Date:** Sheel replaced 2008
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR014	See ACR014
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014

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.).

See ACR014

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.

See ACR014

Permit Shield: See ACR014

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.)

See ACR014

Are you in compliance with all applicable requirements for this emission unit? _X_Yes __No

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description	Heat exchanger	
Emission unit ID number: ACR007	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Southern Heat Exchanger Corporation	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 2011	**Installation Date:** 2011	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR015	See ACR015
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015

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.).

See ACR015

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.

See ACR015

Permit Shield: See ACR015

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.)

See ACR015

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

Emission Unit Description	Heat exchanger	
Emission unit ID number: **ACR008**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: A.O. Smith	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1935/1973	**Installation Date:** 1935/1973	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR016	See ACR016
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016

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.).

See ACR016

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.

See ACR016

Permit Shield: See ACR016

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.)

See ACR016

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

Emission Unit Description	Heat exchanger	
Emission unit ID number: ACR009	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Ward Tank & Heat Exchanger Corporation	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 0	**Installation Date:** 1930	**Modification Date:** Replaced 2013
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR013	See ACR013
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR013	See ACR013	See ACR013
See ACR013	See ACR013	See ACR013

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.).
See ACR013

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.

See ACR013

Permit Shield: See ACR013

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.)

See ACR013

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

Emission Unit Description	Heat exchanger	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR010	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Camden Copper Works	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1965	1965	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR014	See ACR014
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR014	See ACR014	See ACR014
See ACR014	See ACR014	See ACR014

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.).
See ACR014

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. See ACR014
Permit Shield: See ACR014
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.) See ACR014
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

Emission Unit Description	Heat exchanger	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR011	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Camden Copper Works	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1965	1965	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR015	See ACR015
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR015	See ACR015	See ACR015
See ACR015	See ACR015	See ACR015

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.).

See ACR015

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.

See ACR015

Permit Shield: See ACR015

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.)

See ACR015

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

Emission Unit Description	Heat exchanger	
Emission unit ID number: **ACR012**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: A.O. Smith	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1935/1973	**Installation Date:** 1935/1973	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	See ACR016	See ACR016
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR016	See ACR016	See ACR016
See ACR016	See ACR016	See ACR016

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.).

See ACR016

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.

See ACR016

Permit Shield: See ACR016

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.)

See ACR016

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

Emission Unit Description	Vacuum equipment	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR013	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Schutte Koerting	.	.
Construction Date:	**Installation Date:**	**Modification Date:**
1936	1936	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
100 pph Dry Air - 10 mmHg suction P		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	1.2	0.4
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.75	0.25
Methyl Methacrylate	0.35	0.11
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Emission Master & Engineering Estimate

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.

40CFR63.2525(e)(3)

Permit Shield: N/A

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.)

Record the daily rolling annual sum of batches for each still

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

Emission Unit Description	Vacuum equipment	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR014	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer: Schutte Koerting/ Bauerle & Morris Inc. / Ward Vessel & Exchanger	**Model Number:** 63-XG-269-J	**Serial Number:** N/A
Construction Date: 1965	**Installation Date:** 1965	**Modification Date:** Partial Replacement 1974, 2021
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
100 pph Dry Air - 10 mmHg suction P		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	1.022726	0.18885
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.49405	0.06915
Methyl Methacrylate	0.078986	0.0111
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).
Emission Master & Engineering Estimate

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.

40CFR63.2525(e)(3)

Permit Shield: N/A

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.)

Record the daily rolling annual sum of batches for each still

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

Emission Unit Description	Vacuum equipment	
Emission unit ID number: **ACR015**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Schutte Koerting/ Bauerle & Morris Inc. / Sistersville Tank Works	**Model Number:** 67-XG-122-J/ 64-XS-102-J/ 64-XS-175-J	**Serial Number:** N/A
Construction Date: 1967	**Installation Date:** 1967	**Modification Date:** Partial Replacement 1974, 1992, 2011
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150 pph Dry Air - 10 mmHg suction P		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	1.14307	0.20995
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.65295	0.11805
Methyl Methacrylate	0.45012	0.0647
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Emission Master & Engineering Estimate

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.

40CFR63.2525(e)(3)

Permit Shield: N/A

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.)

Record the daily rolling annual sum of batches for each still

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

Emission Unit Description	Vacuum equipment	
Emission unit ID number: **ACR016**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Croll Reynolds	**Model Number:** .	**Serial Number:** .
Construction Date: 1935/1973	**Installation Date:** 1935/1973	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150 pph Dry Air - 10 mmHg suction P		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2.5	0.85
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	2	0.6
Methyl Methacrylate	0.04	0.012
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Emission Master & Engineering Estimate

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.

40CFR63.2525(e)(3)

Permit Shield: N/A

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.)

Record the daily rolling annual sum of batches for each still

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

Emission Unit Description	Storage tank	
Emission unit ID number: **ACR017**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Unknown	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1942	**Installation Date:** 1942	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.006422366	4.01398E-05
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).
Insignificant emissions

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR018	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Mid-South Maintenance, Inc.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
2014	2014	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.585927735	0.017577832
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR022	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Mid-South Maintenance Inc.	NA	NA
Construction Date:	**Installation Date:**	**Modification Date:**
2014	2014	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.149011443	0.003104405
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR023	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1936	1936	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	15.02690632	0.45080719
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR027	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Mid-South Maintenance Inc.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
2014	2014	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	14.2111	0.426333
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR029	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Capital City Iron Works	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1970	1970	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.5	0.176
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).
Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR030	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
RICHMOND ENGINEERING CO.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1965	1965	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.064949664	0.00194849
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR037	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
RICHMOND ENGINEERING CO.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1965	1965	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	17.50153767	0.350030753
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	3.256977053	0.065139541
Methyl Methacrylate	14.23402005	0.284680401
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR031	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
RICHMOND ENGINEERING CO.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1965	1965	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.05	0.0005
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR032	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1936	1936	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.104312567	0.003129377
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number: **ACR034**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Unknown	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1940	**Installation Date:** 1940	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.25	0.165
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.15	0.063
Methyl Methacrylate	0.15	0.0905
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR048	REDACTED	0

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

REDACTED

Manufacturer: 0	**Model Number:** 0	**Serial Number:** 0
Construction Date: 0	**Installation Date:** 0	**Modification Date:** N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

REDACTED

Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes ___No	**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: 0	**Type and Btu/hr rating of burners:** 0 0

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.

0	0	0
0	0	0

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
0	0	0	0
0	0	0	0

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0	0
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

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.).

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.

0

Permit Shield: N/A

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.)

0

Are you in compliance with all applicable requirements for this emission unit? __Yes _X_No

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description	Storage tank	
Emission unit ID number: **ACR035**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Unknown	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1940	**Installation Date:** 1940	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.2	0.325
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.2	0.15
Methyl Methacrylate	0.2	0.16
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number: ACR041	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Unknown	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1940	**Installation Date:** 1940	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	14.62283338	0.304642362
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR038	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1937	1937	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2	0.525
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	1	0.455
Methyl Methacrylate	0.2	0.07
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR039	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1937	1937	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2	0.525
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	1	0.455
Methyl Methacrylate	0.2	0.07
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number: ACR036	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Richmond Engineering Company	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1965	**Installation Date:** 1965	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2.916630841	0.349995701
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.807431702	0.096891804
Methyl Methacrylate	0.564597114	0.067751654
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage Tank	
Emission unit ID number: ACR040A	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** ACRCD2
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Graver Tank & Mfg	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1956	**Installation Date:** 1956	**Modification Date:** 2008
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2.134136061	0.186736905
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	1.918052478	0.167829592
Methyl Methacrylate	0.216083583	0.018907314
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

tanks 4.0.9d

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.

45CSR13, R13-1002D, 4.1.1&4.1.2, 45CSR13, R13-1628, A.1, CO-R21-97-31, III.1, CO-R21-97-31, III.2, 40CFR60.116b(a)&(b)&(c), 45CSR16, 40CFR60.662 (c), 40cfr60.664(f), 40CFR60.113b(a)(1)&(2)&(3)& (4), 40CFR60.665(h), 40CFR60.115b(2), 40CFR60.665(a), 40CFR60.665(l)(7), 40CFR60.115b(a)(3)&(4)

Permit Shield: N/A

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.)

Annual and 10-year inspections, compliance with the following emission limits shall be demonstrative by test or monitoring data, approved emission factors, material balances, and/or representative calculations in accordance with 45CSR21: VOCs 0.19lb/hr 0.505tons/yr. Keep records of dimensions and analysis showing the capacity for life of storage vessel. Keep records of the VOL stored, the period of storage and the maximum true vapor pressure of the VOL during the respective storage period for 2 years. Calculate the TRE and keep it above 1 without use of VOC emission control device. See 5.2.5 for formula. Tank must be inspected every 5 years. Keep records of changes to production capacity, feedstock type, catalyst type, replacement, removal, or addition of recovery equipment or a distallation unit. Any recalculation of the TRE index and results of any performance tests. Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput. Keep records of inspections with the vessel ID, date and observed condition of each component of the control equipment. Must recalculate the TRE if there is a process change. If the TRE goes below 1, must notify Director of DAQ within 1 week and shall conduct performance tests to determine compliance with 180days. If the initial TRE is is greater than 8 and the recalculated is less than or = 8 but greater than 1, a performance test must be done. Notify Administrator within 90 days if use an alternative to 40CFR60.662 and a performance test must be completed within 180 days. If comply with requirements of Subpart NNN by complying with 40CFR60.660(c)(4), (5) or (6) or condition 5.1.4 shall submit to the administrator semiannual reports of any recalculation of the TRE index. If any condition is 5.3.1.(2) are detected during annual inpsection, a report must be sent to the administrator within 30 days

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR042	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Buffalo Tank Corp.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1959	1959	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.400817661	0.100204415
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.400817661	0.100204415
Methyl Methacrylate	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR044	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Buffalo Tank Corp.	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1947	1947	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.2	0.088
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number: **ACR046**	**Emission unit name:** REDACTED	**List any control devices associated with this emission unit:** None
Provide a description of the emission unit (type, method of operation, design parameters, etc.): REDACTED		
Manufacturer: Unknown	**Model Number:** N/A	**Serial Number:** N/A
Construction Date: 1939	**Installation Date:** 1939	**Modification Date:** N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): REDACTED		
Maximum Hourly Throughput: REDACTED	**Maximum Annual Throughput:** REDACTED	**Maximum Operating Schedule:** REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.8	0.1075
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR047	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
1939	1939	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.014456816	0.06332
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
Methyl Methacrylate	0.910218847	0.000455109
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

0

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR128	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
RECO Construction	N/A	N/A
Construction Date:	**Installation Date:**	**Modification Date:**
2013	2013	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2.881493688	0.32416804
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4.0.9d

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.

None

Permit Shield: N/A

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.)

None

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR201	REDACTED	ACRCD1
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Industrial Alloy Fabricators	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
1993	1993	IFR Replacement 2011
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	1.638546784	0.351117168
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
Methyl Methacrylate	1.638546784	0.351117168
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4 Program

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.

45CSR13, R13-1002D, 4.1.1&4.1.2, 45CSR13, R13-1628, A.1, CO-R21-97-31, III.1, CO-R21-97-31, III.2, 40CFR60.116b(a)&(b)&(c), 45CSR16, 40CFR60.662 (c), , , 40CFR60.115b(2), 40CFR60.665(a), 40CFR60.665(l)(7), 40CFR60.115b(a)(3)&(4)4, 0CFR60.113b(a)(1)&(2)&(3)& (4)

Permit Shield: N/A

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.)

Annual and 10-year inspections, compliance with the following emission limits shall be demonstrative by test or monitoring data, approved emission factors, material balances, and/or representative calculations in accordance with 45CSR21: VOCs 0.19lb/hr 0.505tons/yr.

Keep records of dimensions and analysis showing the capacity for life of storage vessel.

Keep records of the VOL stored, the period of storage and the maximum true vapor pressure of the VOL during the respective storage period for 2 years.

Tank must be inspected every 5 years.

Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput.

Keep records of inspections with the vessel ID, date and observed condition of each component of the control equipment.

If any condition is 5.3.1.(2) are detected during annual inpsection, a report must be sent to the administrator within 30 days of inspection. Each report shall: identify the storage vessel, nature of defects, date of storage vessel was emptied or nature of and date the repair was made.

If inspection finds holes or tears in seal or seal fabric, or defects in floating roof, a report shall be furnished to administrator within 30 days of inspection. Report shall contain: identify storage vessel, reason it did not meet 40CFR61.112b(a)(1) or condition 5.3.1.(3) and list each repair made.

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR202	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
1936	1936	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	7.608944935	7.038274065
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	None	None
Methyl Methacrylate	7.608944935	7.038274065
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

Tanks 4 Program

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.

45CSR13, R13-1002D, 4.1.1&4.1.2

Permit Shield: N/A

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.)

Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput.

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR203	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Unknown	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
1942	1942	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	2	0.02
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate	2	0.02
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

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.).

Tanks 4 Program

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.

45CSR13, R13-1002D, 4.1.1&4.1.2

Permit Shield: N/A

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.)

Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput.

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

Emission Unit Description	Distillation apparatus	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR204	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Vulcan Copper & Supply	None	2733
Construction Date:	**Installation Date:**	**Modification Date:**
1943	1943	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.089	0.36
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate	0.089	0.36
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

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.).

Stack Test

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.

45CSR13, R13-1002D, 4.1.1&4.1.2, 40CSR16, 40CFR60.664(f)&(g) 40CFR60.665(a),(h)&(l)(7)

Permit Shield: N/A

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.)

Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput. Calculate the TRE and keep it above 1 without use of VOC emission control device. See 5.2.5 for formula. Keep records of changes to production capacity, feedstock type, catalyst type, replacement, removal, or addition of recovery equipment or a distallation unit. Any recalculation of the TRE index and results of any performance tests. Must recalculate the TRE if there is a process change. If the TRE goes below 1, must notify Director of DAQ within 1 week and shall conduct performance tests to determine compliance with 180days. If the initial TRE is is greater than 8 and the recalculated is less than or = 8 but greater than 1, a performance test must be done. Notify Administrator within 90 days if use an alternative to 40CFR60.662 and a performance test must be completed within 180 days. If comply with requirements of Subpart NNN by complying with 40CFR60.660(c)(4), (5) or (6) or condition 5.1.4 shall submit to the administrator semiannual reports of any recalculation of the TRE index.

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

Emission Unit Description	Jacketed pipe	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR205	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Dupont	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
1989	1989	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO_X)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter ($PM_{2.5}$)	N/A	N/A
Particulate Matter (PM_{10})	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO_2)	N/A	N/A
Volatile Organic Compounds (VOC)	See ACR208/9	See ACR208/9
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR208/9	See ACR208/9	See ACR208/9
See ACR208/9	See ACR208/9	See ACR208/9
See ACR208/9	See ACR208/9	See ACR208/9
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR208/9	See ACR208/9	See ACR208/9
See ACR208/9	See ACR208/9	See ACR208/9

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.).

See ACR208/9

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.

See ACR208/9

Permit Shield: See ACR208/9

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.)

See ACR208/9

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

Emission Unit Description	Heat exchanger	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR206	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Alco Products & Andale Co.	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
1940	1940	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO_X)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter ($PM_{2.5}$)	N/A	N/A
Particulate Matter (PM_{10})	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO_2)	N/A	N/A
Volatile Organic Compounds (VOC)	See ACR204	See ACR204
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR204	See ACR204	See ACR204
See ACR204	See ACR204	See ACR204
See ACR204	See ACR204	See ACR204
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR204	See ACR204	See ACR204
See ACR204	See ACR204	See ACR204

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.).

See ACR204

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.

See ACR204

Permit Shield: See ACR204

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.)

See ACR204

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

Emission Unit Description	Vacuum system	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR207	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Croll Reynolds	0	None
Construction Date:	**Installation Date:**	**Modification Date:**
1989	1989	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO_X)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter ($PM_{2.5}$)	N/A	N/A
Particulate Matter (PM_{10})	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO_2)	N/A	N/A
Volatile Organic Compounds (VOC)	See ACR204	See ACR204
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See ACR204	See ACR204	See ACR204
See ACR204	See ACR204	See ACR204
See ACR204	See ACR204	See ACR204
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
See ACR204	See ACR204	See ACR204
See ACR204	See ACR204	See ACR204

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.).

See ACR204

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.

See ACR204

Permit Shield: See ACR204

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.)

See ACR204

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

Emission Unit Description	Storage tank	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR208	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Pittsburgh Des Moines Steel	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
1962	1962	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.38	1.67
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate	0.38	1.67
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

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.).

Tanks 4.0.9d

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.

45CSR13, R13-1002D, 4.1.1&4.1.2

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.)

Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput.

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

Emission Unit Description	Loading rack	
Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
ACR210	REDACTED	None
Provide a description of the emission unit (type, method of operation, design parameters, etc.):		
REDACTED		
Manufacturer:	**Model Number:**	**Serial Number:**
Dupont	None	None
Construction Date:	**Installation Date:**	**Modification Date:**
REDACTED	N/A	N/A
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):		
REDACTED		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	REDACTED
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? ___Yes _X_No		**If yes, is it?** ___Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
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.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	0
Nitrogen Oxides (NO_X)	0	0
Lead (Pb)	0	0
Particulate Matter ($PM_{2.5}$)	0	0
Particulate Matter (PM_{10})	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO_2)	0	0
Volatile Organic Compounds (VOC)	0.130275209	0.570605416
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.05480797	0.240058907
Methyl Methacrylate	0.07546724	0.33054651
None	None	None
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None	None	None
None	None	None

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.).

AIR Program

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.

45CSR13, R13-1002D, 4.1.1&4.1.2

Permit Shield: N/A

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.)

Maintain daily and monthly records of throughput of the MMA refining unit and shall include rolling 12-month total throughput.

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 G – Air Pollution Control Device Forms

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: ACRCD2	List all emission units associated with this control device. ACR040A	
Manufacturer: HMT	**Model number:** Unideck Suspended Roof	**Installation date:** 05/16/2008

Type of Air Pollution Control Device:

___ Baghouse/Fabric Filter	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	___ Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	___ Condenser	___ Settling Chamber
___ Thermal Incinerator	___ Flare	X_ Internal Floating Roof
___ Wet Plate Electrostatic Precipitator		___ 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
Methyl Methacrylate	100 % *	91.2% **
Methanol	100 % *	95.5% **
Total VOC's	100 % *	95.1% **

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

Internal Floating Roof – Control of emitted vapors by adjusting effective capacity of tank vapor space to match inventory

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

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** This Control Device is subject to the MON MACT

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

Annual remote visual inspections, 10-year internal inspection as part of tank inspection, adherence to specified minimum level to avoid formation of vapor space.

* Capture efficiency : the amount of the contaminated stream that is collected by the control device. **This is interpreted as the percentage of the contaminated stream (vapors from stored material) that vents to the atmosphere through the floating roof.**

** Control efficiency: the amount of contaminant that is removed from the captured stream by the control device. **This is interpreted as the percentage of the component(s) that is (are) prevented from escaping to the atmosphere as a result of the floating roof relative to the amount that would escape if the tank were a standard fixed roof tank.**

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: ACRCD1	**List all emission units associated with this control device.** ACR201	
Manufacturer: HMT	**Model number:** Unideck Floating Roof	**Installation date:** 2H2011 (replacement)

Type of Air Pollution Control Device:

___ Baghouse/Fabric Filter	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	___ Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	___ Condenser	___ Settling Chamber
___ Thermal Incinerator	___ Flare	X Internal Floating Roof
___ Wet Plate Electrostatic Precipitator		___ 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
Methyl Methacrylate	100 % *	98% **

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

Internal Floating Roof – Control of emitted vapors by adjusting effective capacity of tank vapor space to match inventory

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

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** **This tank is subject to NSPS Subpart Kb and the MON MACT.**

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

Annual remote visual inspections, 10-year internal inspection as part of tank inspection, adherence to specified minimum level to avoid formation of vapor space.

* Capture efficiency : the amount of the contaminated stream that is collected by the control device. **This is interpreted as the percentage of the contaminated stream (vapors from stored material) that vents to the atmosphere through the floating roof.**

** Control efficiency: the amount of contaminant that is removed from the captured stream by the control device. **This is interpreted as the percentage of the component(s) that is (are) prevented from escaping to the atmosphere as a result of the floating roof relative to the amount that would escape if the tank were a standard fixed roof tank.**