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**E·A·G·L·E**  
ENVIRONMENTAL SERVICES, INC.

18369 Petroleum Drive  
Baton Rouge, Louisiana 70809  
Phone: (225) 757-0870 • Fax: (225) 757-8855

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2023 NOV 20 P11 2: 37  
PAAK

November 20, 2023

Ms. Bliss Higgins  
Louisiana Department of Environmental Quality  
Office of Environmental Services  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

Re: HME Global, LLC dba FusionOne  
Iberia Parish, LA  
Agency Interest # 17028  
Initial Minor Source Air Permit Application

Ms. Higgins:

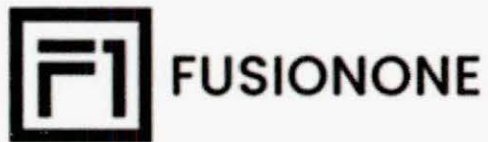
On behalf of our client, HME Global, LLC dba FusionOne (FusionOne), Eagle Environmental Services, Inc. (Eagle) is submitting a Minor Source Air Permit Application for a proposed clean fuels facility at the Port of Iberia in Iberia Parish, LA. This site is approximately 3 miles south of New Iberia, Louisiana. A detailed description of the proposed facility is provided in Section 1.0 of this document.

Please feel free to contact me or Barrett Kyle at (225) 757-0870 with any questions concerning this request.

Sincerely,

Charles Brumfield  
Air Program Lead  
Eagle Environmental Services, Inc.





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**HME GLOBAL, LLC DBA FUSIONONE**

**FUSIONONE NEW IBERIA**

**AGENCY INTEREST NO. 17028**

**IBERIA PARISH, LOUISIANA**

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**INITIAL MINOR SOURCE AIR PERMIT  
APPLICATION**

**November 2023**

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**Section 1.0**  
**Introduction**

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## 1.0 INTRODUCTION

### 1.1 Background

With this Initial Minor Source Air Permit Application, HME Global, LLC dba FusionOne (FusionOne) seeks approval for the construction and operation of a clean fuels facility at the Port of Iberia in Iberia Parish, Louisiana. This site is approximately 3 miles south of New Iberia, Louisiana. The FusionOne facility's primary feedstocks will consist of waste tires and post consumer and commercial plastic that would otherwise be destined for landfills.

The site consists of approximately 9.4 acres of industrially developed land. The site was previously operated by Cameron Solutions, Inc. (Cameron Solutions) and permitted under Minor Source Air Permit 1260-00131-01. Under Cameron Solutions, the site was used for fabrications and repairs of equipment used in the oil and gas industry. Activities included welding, surface coating, and abrasive blasting. The facility was closed on July 30, 2021, and Permit 1260-00131-01 was rescinded on November 23, 2021. FusionOne will not use any of the previously permitted equipment or conduct any of the previously permitted activities at this site. Figure 1 (Site Location Map) illustrates the location of the proposed facility.

Section 2.0 of this document contains a completed Application for Approval of Emissions of Air Pollutants from Minor Sources for the proposed facility. Regulatory Applicability Tables 1-4 are included in Appendix A. Emissions Inventory Questionnaires (EIQs) are included in Appendix B. Emissions Calculations are included in Appendix C. A Certificate of Good Standing report is provided in Appendix D.

### 1.2 Facility Description

The proposed FusionOne facility will utilize two separate skid units for the processing of waste tires and diverted plastic respectively. Both units will operate according to similar processes. The individual feedstocks for each skid will be collected and diverted from landfill. Feedstock will enter a pyrolysis reactor alongside cellulosic materials where it will be subjected to high temperatures in a controlled low-to-zero oxygen environment. The long polymer chains of the feedstock will break down into shorter, simpler chains and monomers. The reactor produces a hydrogen rich syngas stream, a pyrolysis oil of heavier compounds that is condensed from the syngas, and a solid char coproduct that is mostly composed of carbon. Energy is extracted from otherwise wasted heat.

Several Block Flow Diagrams for the proposed facility are provided as Figures 3-5.

### **1.3 Regulatory Applicability**

The proposed facility will be located in a parish that is in attainment for all criteria air pollutants. The proposed facility will be a Louisiana State-only Minor Source Air Permit and will be an Area Source with respect to Hazardous Air Pollutants (HAPs). Please see Appendix A for the regulatory applicability Tables 1-4.

### **1.4 Emission Calculations**

Appendix C of this submittal contains emissions calculations and supporting information for emission point sources at the proposed facility.

When available, vendor data and emission factors were used to calculate source air emissions. Otherwise, AP-42 emissions factors for the appropriate source were used. Conservative estimates were used to allow for operational flexibility of each source.

### **1.5 Listing of Contiguous Sites**

In accordance with current LDEQ policy, no contiguous facilities in FusionOne's control are identified within ¼ mile of the FusionOne facility. Figure 1 (Site Location Map) illustrates the location of the proposed facility.

**Section 2.0**

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**Application for Approval of Emissions of Air Pollutants from Minor Sources**



Department of Environmental Quality Office of Environmental Services Air Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3417	<h1>LOUISIANA</h1> <h2>Application for Approval of Emissions of Air Pollutants from Minor Sources</h2>	
------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

PLEASE TYPE OR PRINT

**1. Facility Information [LAC 33:III.517.D.1]**

<b>Facility Name (if any)</b> FusionOne New Iberia	
<b>Agency Interest Number (A.I. Number)</b> 17028	<b>Currently Effective Permit Number(s)</b> N/A
<b>Company - Name of Owner</b> HME Global, LLC dba FusionOne	
<b>Company - Name of Operator (if different from Owner)</b> N/A	
<b>Parent Company (if Company – Name of Owner given above is a division)</b> N/A	
<b>Federal Tax-ID</b> 85-3009358	

**Ownership:**

Check the appropriate box.

- |                                                                                      |                                             |                                               |
|--------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| <input checked="" type="checkbox"/> corporation, partnership, or sole proprietorship | <input type="checkbox"/> regulated utility  | <input type="checkbox"/> municipal government |
| <input type="checkbox"/> state government                                            | <input type="checkbox"/> federal government | <input type="checkbox"/> other, specify       |

**2. Physical Location and Process Description**  
[LAC 33:III.517.D.18, unless otherwise stated]

*What does this facility produce? Add more rows as necessary.*  
See Section 1.2.

*What modifications/changes are proposed in this application? Add more rows as necessary.*  
N/A

**Nearest town (in the same parish as the facility):**  
New Iberia

**Parish(es) where facility is located:**  
Iberia

<b>Distance To (mi):</b>	<u>112</u> Texas	<u>212</u> Arkansas	<u>74</u> Mississippi	<u>208</u> Alabama
<b>Latitude of Facility Front Gate:</b>	<u>29</u> Deg	<u>56</u> Min	<u>24</u> Sec	<u>54</u> Hundredths
<b>Longitude of Facility Front Gate:</b>	<u>-91</u> Deg	<u>50</u> Min	<u>40</u> Sec	<u>52</u> Hundredths

*Add physical address and description of location of the facility below. If the facility has no address, provide driving directions. Add more rows as necessary.*

5315 Curtis Lane, New Iberia, Louisiana

- Map attached (required per LAC 33:III.517.D.1)
- Description of processes and products attached (required per LAC 33:III.517.D.2)
- Introduction/Description of the proposed project attached (required per LAC 33:III.517.D.5)
- Evidence of compliance with local zoning ordinance for proposed location (required per LAC 33:III.513.C.1.a; for Portable Facilities only)

### 3. Confidentiality [LAC 33.I.Chapter 5]

Are you requesting confidentiality for any information except air pollutant emission rates?  Yes  No

If "yes," list the sections for which confidentiality is requested below. Add rows as necessary. Confidentiality requests require a submittal that is separate from this application. Information for which confidentiality is requested should not be submitted with this application. Consult instructions.

### 4. Type of Application [LAC 33:III.517.D]

Check all that apply.

<input checked="" type="checkbox"/> Minor Source	<input type="checkbox"/> Synthetic Minor Source	<input type="checkbox"/> Small Source	<input type="checkbox"/> Portable Facility
<input type="checkbox"/> Minor Source Oil & Gas General Permit (MSOG)*			
<input type="checkbox"/> Minor Source Surface Coating and Fabrication General Permit (SCF)*			
<input type="checkbox"/> Renewal			
Select one, if applicable:			
<input checked="" type="checkbox"/> Entirely new facility			
<input type="checkbox"/> Modification or expansion of existing facility (may also include reconciliations)			
<input type="checkbox"/> Reconciliation only			

\*Additional separate submittal required. See instructions for more details.

If "Portable Facility" was selected above, please enter the Make, Model, and Serial Number of each portable combustion emissions source to be permitted. Otherwise, leave blank. Do *NOT* list any motor vehicles. Add rows as necessary.

**Make** **Model** **Serial Number**

Does this submittal update or replace an application currently under review?  Yes  No

If yes, provide date that the prior application was submitted: \_\_\_\_\_

Select one if this application is for an existing facility that does not have an air quality permit:

- Previously Grandfathered (LAC 33:III.501.B.6)
- Previously Exempted (e.g., Small Source Exemption; LAC 33:III.501.B.2.d)
- Previously Unpermitted

### 5. Fee Information [LAC 33:III.517.D.17]

**Fee Parameter:** If the fee code is based on an operational parameter (such as number of employees or capital cost), enter that parameter here. \_\_\_\_\_

**Industrial Category:** Enter the Standard Industrial Classification (SIC) Codes that apply to the facility.

**Primary SICC:** 5093 **Primary NAICS Code:** 42393C

**Secondary SICC(s):** \_\_\_\_\_

**Project Fee Calculation:** Enter fee code, permit type, production capacity/throughput, and fee amount pursuant to LAC 33:III.Chapter 2. Include with the application the amount in the Grand Total blank as the permit application fee.

FEE CODE	TYPE	EXISTING CAPACITY	INCREMENTAL CAPACITY INCREASE	SURCHARGES			TOTAL AMOUNT
				MULTIPLIER	NSPS	AIR TOXICS	
1590	MIN.				<input type="checkbox"/>	<input type="checkbox"/>	\$4,281.00
					<input type="checkbox"/>	<input type="checkbox"/>	\$
					<input type="checkbox"/>	<input type="checkbox"/>	\$
<b>GRAND TOTAL</b>							\$4,281.00

**\*\*Optional\*\* Fee Explanation:** Use the space provided to give an explanation of the fee determination displayed above.

**Electronic Fund Transfer (EFT):** If paying the permit application fee using an Electronic Fund Transfer (EFT), please include the EFT Transaction Number, the Date that the EFT was made, and the total dollar amount submitted in the EFT. If not paying the permit application fee using EFT, leave blank.

EFT Transaction Number	Date of Submittal	Total Dollar Amount
<u>0N1G7N1808</u>	<u>11-21-23</u>	\$ <u>4,364.48</u>

**6. Key Dates**

*Rec.# 54796*

Estimated date construction will commence: 4/1/2024 Estimated date operation will commence: 4/1/2026

**7. LAC 33:1.1701 Requirements – Answer all below for new sources and permit renewals -  Yes  No**

*Does the company or owner have federal or state environmental permits identical to, or of a similar nature to, the permit for which you are applying in Louisiana or other states? (This requirement applies to all individuals, partnerships, corporations, or other entities who own a controlling interest of 50% or more in your company, or who participate in the environmental management of the facility for an entity applying for the permit or an ownership interest in the permit.)  Yes  No*

**If yes, list States:** \_\_\_\_\_

*Do you owe any outstanding fees or final penalties to the Department?  Yes  No*  
*If yes, explain below. Add rows if necessary.*

\_\_\_\_\_  
\_\_\_\_\_

*Is your company a corporation or limited liability company?  Yes  No*

**If yes, attach a copy of your company's Certificate of Registration and/or Certificate of Good Standing from the Secretary of State. The appropriate certificate(s) should be attached to the end of this application as an appendix.**

## 8. Certification of Compliance With Applicable Requirements

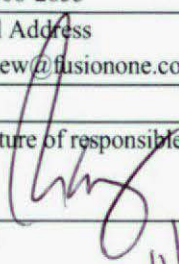
Statement for Applicable Requirements for Which the Company and Facility Referenced In This Application Is In Compliance

Based on information and belief, formed after reasonable inquiry, the company and facility referenced in this application is in compliance with and will continue to comply with all applicable requirements pertaining to the sources covered by the permit application, as outlined in Tables 1 and 2 in the permit application. For requirements promulgated as of the date of this certification with compliance dates effective during the permit term, I further certify that the company and facility referenced in this application will comply with such requirements on a timely basis and will continue to comply with such requirements.

*For corporations only:* By signing this form, I certify that, in accordance with the definition of Responsible Official found in LAC 33:III.502, **(1)** I am a president, secretary, treasurer, or vice-president in charge of a principal business function, or other person who performs similar policy or decision-making functions; or **(2)** I am a duly authorized representative of such person; am responsible for the overall operation of one or more manufacturing, production, or operating facilities addressed in this permit application; and either the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or the delegation of authority has been approved by LDEQ prior to this certification.\*

**CERTIFICATION:** I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Application for Approval of Emissions of Air Pollutants from Minor Sources, including all attachments thereto and the compliance statement above, are true, accurate, and complete.

a. Responsible Official		
Name Matthew Emory		
Title Executive Vice President		
Company HME Global, LLC dba FusionOne		
Suite, mail drop, or division Suite 107		
Street or P.O. Box 110 Travis Street		
City Lafayette	State LA	Zip 70501
Business phone 908-208-2833		
Email Address matthew@fusionone.co		

Signature of responsible official (See LAC 33:III.502): 
Date: 11/20/23

\*Approval of a delegation of authority can be requested by completing a Duly Authorized Representative Designation Form (Form 7218) available on LDEQ's website at <http://deq.louisiana.gov/page/air-permit-applications>

**9. Personnel [LAC 33:III.517.D.1]**

<b>a. Manager of Facility who is located at plant site</b>		
<b>Name</b> Matthew Emory	<input checked="" type="checkbox"/> Primary contact	
<b>Title</b> Executive Vice President		
<b>Company</b> HME Global, LLC dba FusionOne		
<b>Suite, mail drop, or division</b> Suite 107		
<b>Street or P.O. Box</b> 110 Travis Street		
<b>City</b> Lafayette	<b>State</b> LA	<b>Zip</b> 70501
<b>Business phone</b> 908-208-2833	<b>Mobile Phone</b>	
<b>Email address</b> matthew@fusionone.co		

<b>b. On-site contact regarding air pollution control</b>		
<b>Name</b> Matthew Emory	<input type="checkbox"/> Primary contact	
<b>Title</b> Executive Vice President		
<b>Company</b> HME Global, LLC dba FusionOne		
<b>Suite, mail drop, or division</b> Suite 107		
<b>Street or P.O. Box</b> 110 Travis Street		
<b>City</b> Lafayette	<b>State</b> LA	<b>Zip</b> 70501
<b>Business phone</b> 908-208-2833	<b>Mobile Phone</b>	
<b>Email address</b> matthew@fusionone.co		

<b>c. Person to contact with written correspondence</b>		
<b>Name</b> Matthew Emory	<input type="checkbox"/> Primary contact	
<b>Title</b> Executive Vice President		
<b>Company</b> HME Global, LLC dba FusionOne		
<b>Suite, mail drop, or division</b> Suite 107		
<b>Street or P.O. Box</b> 110 Travis Street		
<b>City</b> Lafayette	<b>State</b> LA	<b>Zip</b> 70501
<b>Business phone</b> 908-208-2833	<b>Mobile Phone</b>	
<b>Email address</b> matthew@fusionone.co		

<b>d. Person who prepared this report</b>		
<b>Name</b> Charles Brumfield	<input type="checkbox"/> Primary contact	
<b>Title</b>		
<b>Company</b> Eagle Environmental Services, Inc.		
<b>Suite, mail drop, or division</b>		
<b>Street or P.O. Box</b> 18379 Petroleum Drive		
<b>City</b> Baton Rouge	<b>State</b> LA	<b>Zip</b> 70809
<b>Business phone</b> 225-757-0870	<b>Mobile Phone</b>	
<b>Email address</b> charles.brumfield@eaglered.com		

<b>e. Person to contact about Annual Maintenance Fees</b>		<input checked="" type="checkbox"/> a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/> other (specify below)	
<b>Name</b>	<input type="checkbox"/> Primary contact	<b>Suite, mail drop, or division</b>	
<b>Title</b>		<b>Street or P.O. Box</b>	
<b>Company</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
<b>Business Phone</b>		<b>Email Address</b>	





**12.a. Enforcement Actions [LAC 33:III.517.D.18]-**  Yes  No

If yes, list all federal and state air quality enforcement actions, settlement agreements, and consent decrees received for this facility since the issuance of the currently effective Title V Operating Permit or State Operating Permit. For each action, list the type of action (or its tracking number), the regulatory authority or authorities that issued the action, and the date that the action was issued. Summarize the conditions imposed by the enforcement action, settlement agreement, and consent decree in Section 19, Table 2. It is not necessary to submit a copy of the referenced action. Add rows to table as necessary.

Type of Action or Tracking Number	Issuing Authority	Date Action Issued	Summary of Conditions Included?
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

**12.b. Schedule for Compliance [LAC 33:III.517.D.16]**  Yes  No

If the facility for which application is being made is not in full compliance with all applicable regulations, give a description of how compliance will be achieved, including a schedule for compliance below. Add rows as necessary. See instructions.

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**13. Letters of Approval for Alternate Methods of Compliance-**  Yes  No

If yes, list all correspondence with LDEQ, EPA, or other regulatory bodies that provides for or supports a request for alternate methods of compliance with any applicable regulations for this facility. List the date of issuance of the letter and the regulation referenced by the letter. **Attach as an appendix a copy of all documents referenced in this table.** Letters that are not included may not be incorporated into a final permit. Add rows to table as necessary.

Date Letter Issued	Issuing Authority	Referenced Regulation(s)	Copy of Letter Attached?
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

**14. Initial Notifications and Performance Tests [LAC 33:III.517.D.18] -**  Yes  No

If yes, list any initial notifications that have been submitted or one-time performance tests that have been performed for this facility since the issuance of the currently effective Title V Operating Permit or State Operating Permit in order to satisfy regulatory requirements. Any initial notification or one-time performance test requirements that have not been satisfied should be listed in Section 19, Table 2 of this application. Any notifications or performance tests that recur periodically should also be properly noted in Section 19, Table 2 of this application. Add rows to table as necessary.

Initial Notification or One-time Performance Test?	Regulatory Citation Satisfied	Date Completed/Approved



**15. Air Quality Dispersion Modeling [LAC 33:III.517.D.15]**

Was Air Quality Dispersion Modeling as required by LAC 33:III performed in support of this permit application? (Air Quality Dispersion Modeling is required when requested by LDEQ.)

Yes  No

Has Air Quality Dispersion Modeling completed in accordance with LAC 33:III ever been performed for this facility in support of an air permit application previously submitted for this facility or as required by other regulations AND approved by LDEQ?

Yes  No

If yes, enter the date the most recent Air Quality Dispersion Modeling results as required by LAC 33:III were submitted:

If the answer to either question above is "yes," enter a summary of the most recent results in the following table. If the answer to both questions is "no," enter "none" in the table. Add rows to table as necessary.

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Standard or (National Ambient Air Quality Standard {NAAQS})

**16. General Condition XVII Activities [LAC 33:III.537]-**  Yes  No

Enter all activities that qualify as Louisiana Air Emissions Permit General Condition XVII Activities.

- Expand this table as necessary to include all such activities.
- See instructions to determine what qualifies as a General Condition XVII Activity.
- Do not include emissions from General Condition XVII Activities in the proposed emissions totals for the permit application.
- The "Schedule" blank for each proposed General Condition XVII Activity is a **required** entry.

Work Activity	Schedule	Emission Rates – TPY					
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Other



**18. Regulatory Applicability for Commonly Applicable Regulations – Answer all below [LAC 33:III.517.D.10]**

*Does this facility contain asbestos or asbestos containing materials?*  Yes  No

If “yes,” the facility or any portion thereof may be subject to 40 CFR 61, Subpart M, LAC 33:III.Chapter 27, and/or LAC 33:III.5151, and this application must address compliance as stated in Section 19 of this application.

*Is the facility represented in this permit subject to 40 CFR 68?*  Yes  No

If “yes,” the entire facility is subject to 40 CFR 68 and LAC 33:III.Chapter 59, and this application must address compliance as stated in Section 19 of this application.

*Is the facility listed in LAC 33:III.5611?*

*Table 5*  Yes  No

*Table 6*  Yes  No

*Table 7*  Yes  No

*Does the applicant own or operate commercial refrigeration equipment normally containing more than 50 pounds of refrigerant at this facility?*  Yes  No

If “yes,” the entire facility is subject to 40 CFR 82, Subpart F, and this application must address compliance as stated in Section 19 of this application.

## 19. Applicable Regulations, Air Pollution Control Measures, Monitoring, and Recordkeeping

Important points for Table 1 [LAC 33:III.517.D.10]:

- List in Table 1, by Emission Point ID Number and Descriptive Name of the Equipment, state and federal pollution abatement programs and note the applicability or non-applicability of the regulations to each source.
- Adjust the headings for the columns in Table 1 as necessary to reflect all applicable regulations, in addition to any regulations that do not apply but require an explanation to substantiate this fact.
- For each piece of equipment, enter “1” for each regulation that applies. Enter “2” for each regulation that applies to this type of source, but from which this source of emissions is exempt. Enter “3” for equipment that is subject to a regulation, but does not have any applicable requirements. Also, enter “3” for each regulation that has applicable requirements that apply to the particular emission source, but the regulations currently do not apply due to meeting a specific criterion, such as it has not been constructed, modified, or reconstructed since the regulations have been in place.
- Leave the spaces blank when the regulations clearly would not apply under any circumstances to the source. For example, LAC 33:III.2103 – Storage of Volatile Organic Compounds would never apply to a steam generating boiler, no matter the circumstances.
- Consult instructions.

Important points for Table 2 [LAC 33:III.517.D.10]:

- For each piece of equipment listed in Table 2, include all applicable limitations, recordkeeping, reporting, monitoring, and testing requirements. Also, include any one-time notification or one-time performance test requirements that have not been fulfilled.
- Each of these regulatory aspects (limitations, recordkeeping, reporting, etc.) should be addressed for each regulation that is applicable to each emissions source or emissions point.
- For each regulation that provides a choice regarding the method of compliance, indicate the method of compliance that will be employed. It is not sufficient to state that all compliance options will be employed, though multiple compliance options may be approved as alternative operating scenarios.
- Consult instructions.

Important points for Table 3 [LAC 33:III.517.D.16]:

- Each time a 2 or a 3 is used to describe applicability of a source in Table 1, an entry should be made in Table 3 that explains the exemption or non-applicability status of the regulation to that source.
- Fill in all requested information in the table.
- The exact regulatory citation that provides for the specific exemption or non-applicability determination should be entered into the “Citation Providing for Exemption or Non-applicability” column.
- Consult Instructions.

Important points for Table 4 [LAC 33:III.517.D.18]:

- List any single emission source that routes its emissions to another point where these emissions are commingled with the emissions of other sources before being released to the atmosphere. Do not list any single emission source in this table that does not route its emissions in this manner.
- List any and all emission sources that are routed as described above. This includes emission sources that do not otherwise appear in this permit application.
- Consult instructions.

**Regulatory Applicability Tables 1-4 are included as Appendix A.**

**20. Emissions Inventory Questionnaire (EIQ) Forms [LAC 33:III.517.D.3]**

<p>Complete one (1) EIQ for:</p> <ul style="list-style-type: none"> <li>• Each emission source. If two emission sources have a common stack, the applicant may submit one EIQ sheet for the common emissions point. Note any emissions sources that route to this common point in Table 4 of the application.</li> <li>• Each emissions CAP that is proposed, including each source that is part of the CAP.</li> <li>• Each alternate operating scenario that a source may operate under. Some common scenarios are:             <ol style="list-style-type: none"> <li>1. Sources that combust multiple fuels</li> <li>2. Sources that have startup/shutdown max lb/hr emission rates higher than the max lb/hr for normal operating conditions would need a separate EIQ addressing the startup/shutdown emission rates</li> </ol> </li> <li>• Fugitive emissions releases. One (1) EIQ should be completed for each of the following types of fugitive emissions sources or emissions points:             <ol style="list-style-type: none"> <li>1. Equipment leaks.</li> <li>2. Non-equipment leaks (i.e., road dust, settling ponds, etc).</li> </ol> </li> </ul>
<p>For each EIQ:</p> <ul style="list-style-type: none"> <li>• Fill in all requested information.</li> <li>• Speciate all Toxic Air Pollutants and Hazardous Air Pollutants emitted by the source.</li> <li>• Use appropriate significant figures.</li> <li>• Consult instructions.</li> </ul>
<p>The EIQ is in Microsoft Word Excel. Visit the following website to get to the EIQ form.  <a href="http://deq.louisiana.gov/page/air-permit-applications">http://deq.louisiana.gov/page/air-permit-applications</a></p>

**Emissions Inventory Questionnaires (EIQs) are included as Appendix B.**

**21. Contiguous/Adjacent Facilities [LAC 33:III.502]**

List each facility that is contiguous/adjacent to and under common control with the facility represented in this permit application.

If any contiguous facilities exist, complete all fields for each contiguous/adjacent facility. Emission rates should be represented in tons per year. Add rows as necessary. As the last entry, show the total emission rates of each listed pollutant for all listed contiguous/adjacent facilities. If no contiguous facilities exist, enter "N/A."

Guidance regarding contiguous/adjacent determinations is available at <http://deq.louisiana.gov/page/-contiguous-or-adjacent-properties-in-the-oil-and-natural-gas-sector>.

Emission rates in tons per year							
Facility Name	Agency Interest Number	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Total HAPs/Total TAPs
N/A							
<b>Total</b>							

## STATE OPERATING PERMIT APPLICATION COMPLETENESS CHECKLIST

Instructions: Complete this checklist and submit with the completed air permit application.

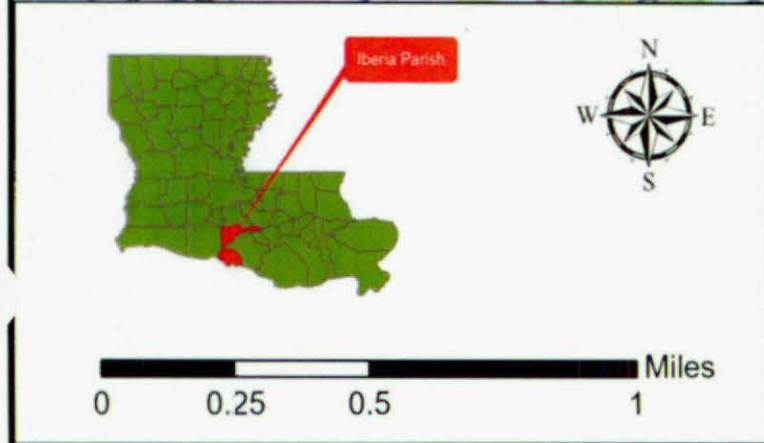
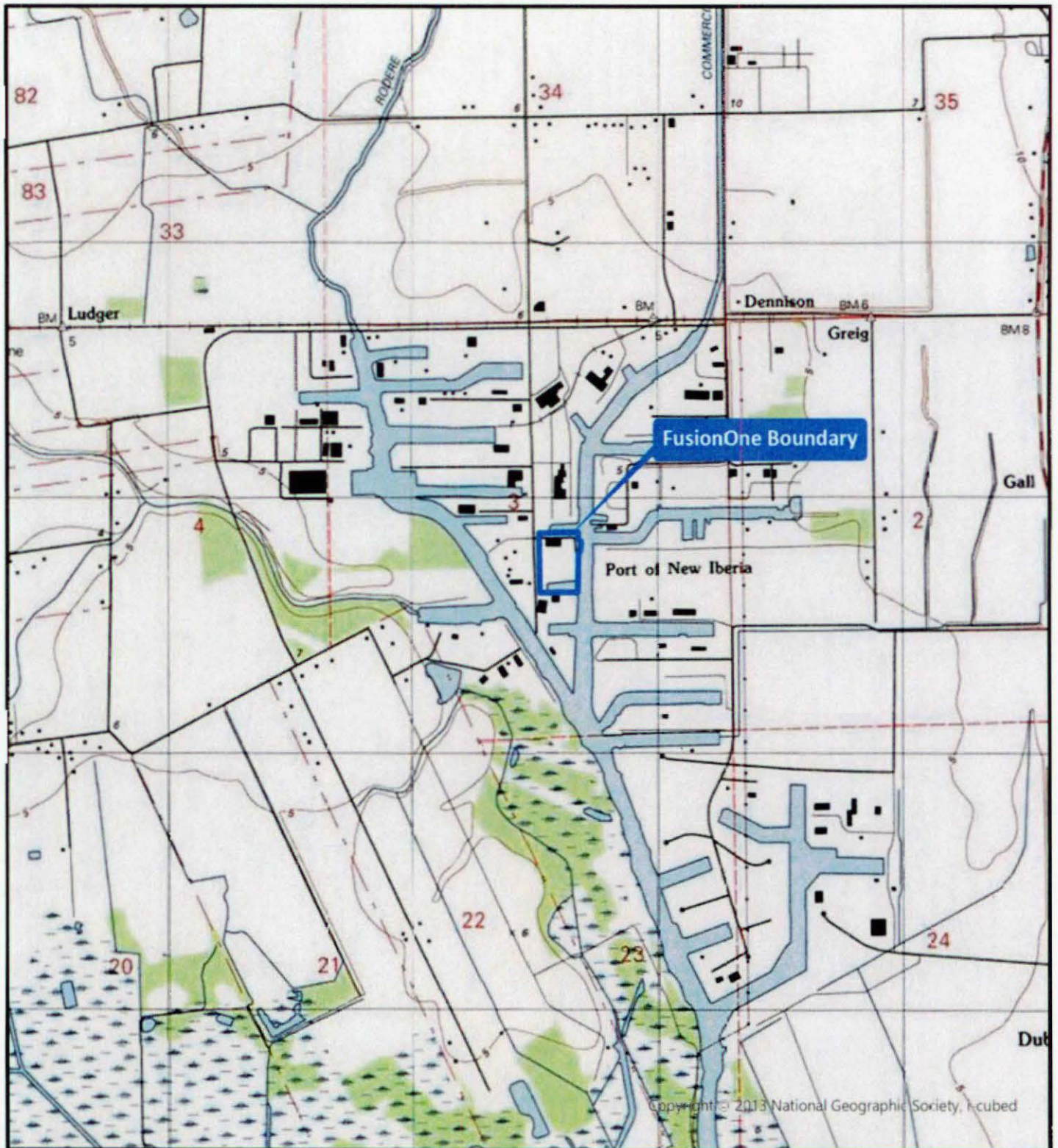
LAC 33:III.	Completeness Questions Relative to the State Operating Permit Application	Yes	No	NA	Location Within the Permit Application
517.B.1,2 Certification	Does the Application include a Certification by a Responsible Official or Duly Authorized Representative?	X			Section 2
517.D.1 Identifying Information	Does the Application Include:				
	1. Company Name, Physical and Mailing Address of Facility?	X			Section 2
	2. Map showing Location of the Facility?	X			Figure 1
	3. Owner and Operator Names and Agent?	X			Section 2
517.D.2 SIC Codes, Source Categories	Does the Application Include a Description of the Source's Processes and Products?	X			Section 1
	Does the Application Include the Source's SIC Code?	X			Section 2
	Does the Application Include EPA Source Category of HAPs if applicable?			X	
517.D.3,6 EIQ Sheets	Has an EIQ Sheet been Completed for each Emission Point whether an Area or Point Source?	X			Appendix B
517.D.4 Monitoring Devices	Does the Application Include Identification and Description of Compliance Monitoring Devices or Activities?			X	
517.D.5 Revisions and Modifications Only	For Revisions or Modifications, Does the Application include a Description of the Proposed Change and any Resulting Change in Emissions?			X	
517.D.7 General Information	Does the Application Include Information Regarding Fuels, Fuel Use, Raw Materials, Production Rates, and Operating Schedules as necessary to substantiate emission rates?	X			Appendix C
517 D.8 Operating Limitations	Has Information Regarding any Limitations on Source Operation or any Applicable Work Practice Standards been Identified?			X	
517.D.9 Calculations	Are Emission Calculations Provided?	X			Appendix C
517.D.10 Regulatory Review	Does the Application Include a Citation and Description of Applicable Louisiana and Federal Air Quality Requirements and Standards?	X			Appendix A
517.D.11 Test Methods	Has a Description of or a Reference to Applicable Test Methods Used to Determine Compliance with Standards been Provided?			X	

LAC 33:III.	Completeness Questions Relative to the State Operating Permit Application	Yes	No	NA	Location Within the Permit Application
517.D.12 Major Sources of TAPs	Does the Application include Information Regarding the Compliance History of Sources Owned or Operated by the Applicant (per LAC 33.III.5111)?			X	
517.D.13 Major Sources of TAPs	Does the Application include a Demonstration to show that the Source Meets all Applicable MACT and Ambient Air Standard Requirements?			X	
517.D.16, 18	Has any Additional Information been Provided?			X	
517.D.17 Fees	Has the Fee Code been Identified?	X			Section 2
	Is the Applicable Fee Included with the Application?	X			EFT
517.F Confidentiality	Does the Application Include a Request for Non-Disclosure (Confidentiality)?		X		
525.B. Minor Permit Modifications	Does the Application Include a Listing of New Requirements Resulting for the Change?			X	
	Does the Application Include Certification by the Responsible Official that the Proposed Action Fits the Definition of a Minor Modification as per LAC 33:III.525.A.			X	
	Does the Certification also Request that Minor Modification Procedures be Used?			X	

**Figure 1**  
**Site Location Map**

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**FusionOne**  
New Iberia, Louisiana

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**SITE LOCATION MAP**

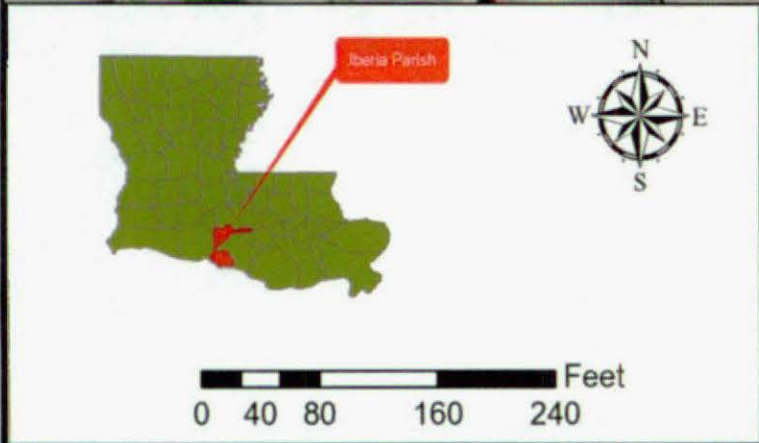
Iberia Parish

 <b>E·A·G·L·E</b> <small>ENVIRONMENTAL SERVICES, INC.</small>	Drawn: JF
	Checked: HS
	Approved: HS
	Date: 10/18/23
	Dwg No: 411-23-0002-A001

FIGURE 1

**Figure 2**  
**Aerial Photograph**

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**FusionOne**  
New Iberia, Louisiana

**AERIAL PHOTOGRAPH**

Iberia Parish



Drawn:	JP
Checked:	HS
Approved:	HS
Date:	10/18/23
Dwg. No.:	411-23-0002-A002
<b>FIGURE 2</b>	

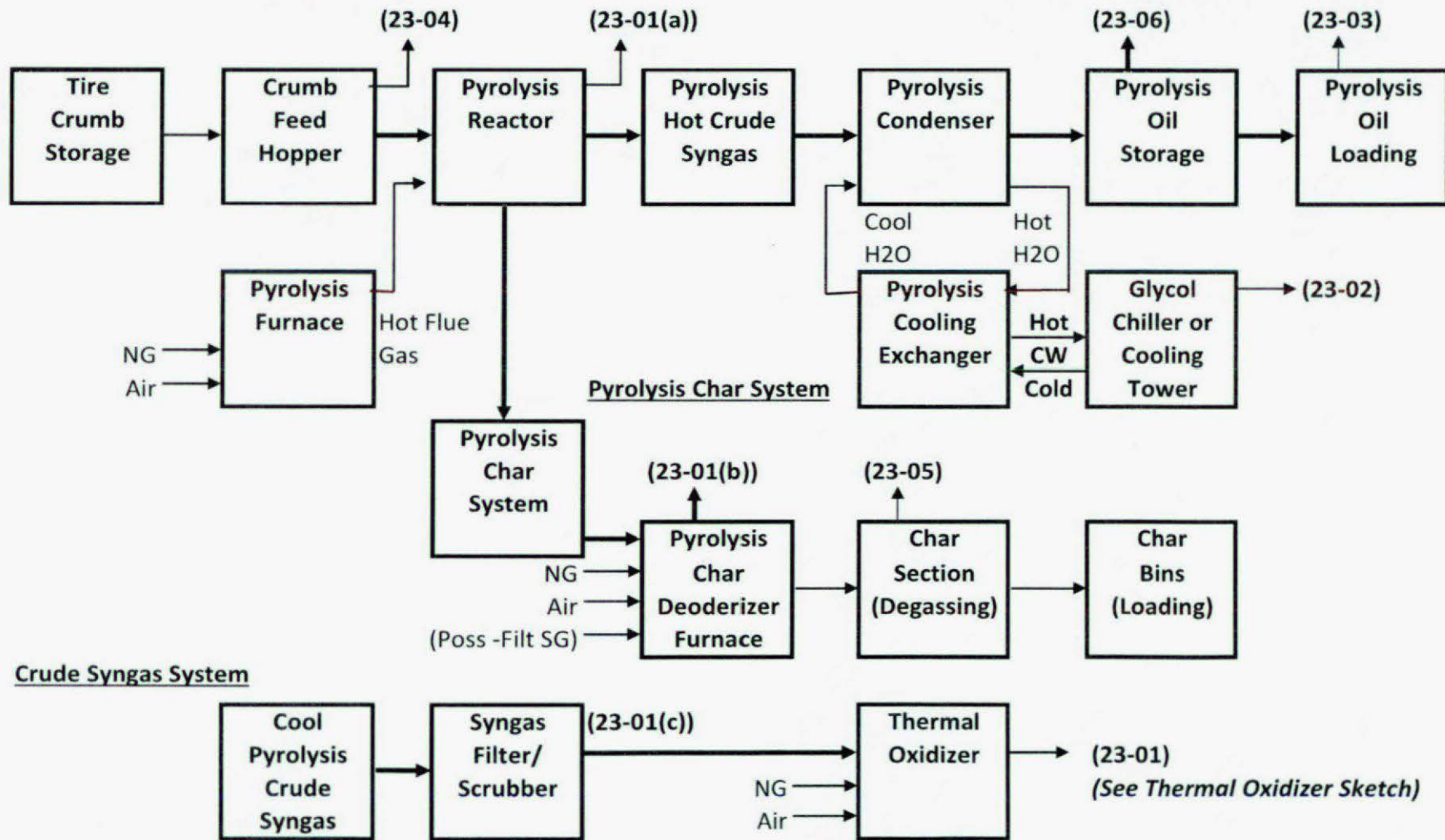
**Figure 3**  
**Tire Skid Block Flow Diagram**

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Figure 3 - Tire Skid Block Flow Diagram

Pyrolysis

Pyrolysis Condenser System



(\*Note) → (Bold-Line = Included with (FUG-01))

**Figure 4**

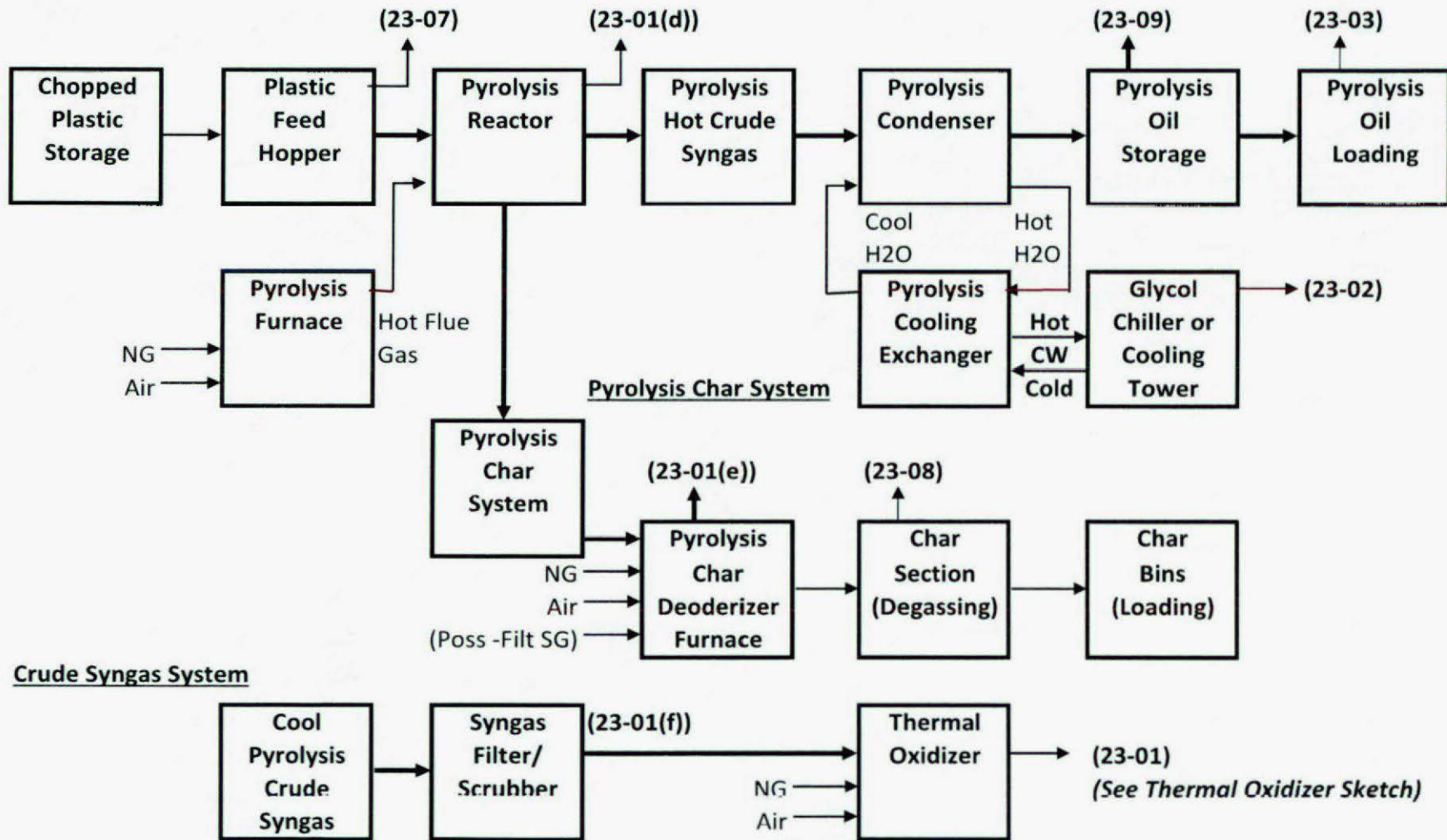
**Plastic Skid Block Flow Diagram**

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Figure 4 - Plastic Skid Block Flow Diagram

Pyrolysis

Pyrolysis Condenser System



(\*Note) → (Bold-Line = Included with (FUG-02))

**Figure 5**  
**Thermal Oxidizer Block Flow Diagram**

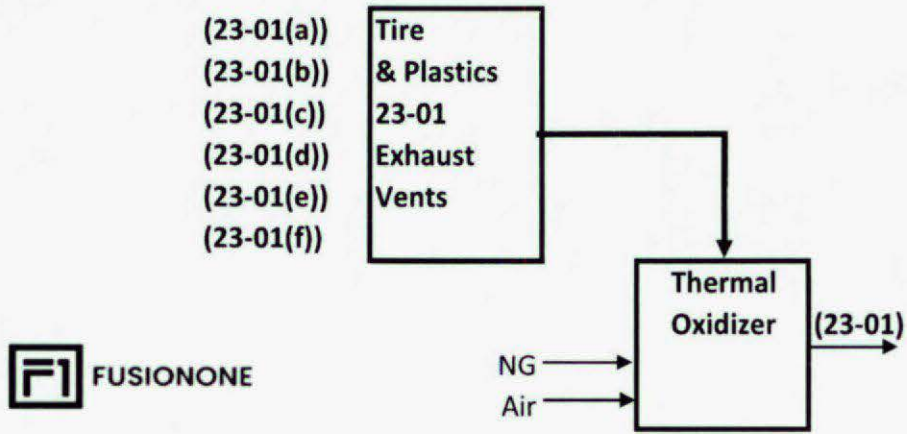
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# FusionOne

## New Iberia Facility

Figure 5 - Thermal Oxidizer Block Flow Diagram



**Appendix A**

**Regulatory Applicability Tables 1-4**

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**TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS**

Source ID No.:	Descriptive Name of the Source	LAC 33:III							LAC 33:III.Chapter										
		509	2103	2107	2111	2113	2115	2123	5	9	11	13	15	21	29	51	53	56	59
New	Facility Wide					1	3		1	1	1	1		1	1				
New	23-01, Thermal Oxidizer										1	1	2						
New	23-01(a), Tire Skid Pyr Furnace										1	1	2						
New	23-01(b), Tire Skid Char Furnace										1	1	2						
New	23-01(c), Tire Skid Syngas Scrubber																		
New	23-01(d), Plastic Skid Pyr Furnace										1	1	2						
New	23-01(e), Plastic Skid Char Furnace										1	1	2						
New	23-01(f), Plastic Skid Syngas Scrubber																		
New	23-02, Cooling Tower											1							
New	23-03, Loading Emissions			2															
New	23-04, Tire Skid Feed Hopper Purge Vent						3												
New	23-05, Tire Skid Char Storage Purge Vent						3												
New	23-06, Tire Skid Pyr Oil Storage Tank		3																
New	23-07, Plastic Skid Feed Hopper Purge Vent						3												
New	23-08, Plastic Skid Char Storage Purge Vent						3												
New	23-09, Plastic Skid Pyr Oil Storage Tank		3																
New	FUG-01, Tire Skid Fugitive Leak Emissions													3					
New	FUG-02, Plastic Skid Fugitive Leak Emissions													3					

## **TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS**

### **KEY TO MATRIX**

- 1 (Applicable) The regulations have applicable requirements that apply to this particular emissions source. This includes any monitoring, recordkeeping, or reporting requirements.
- 2 (Exempt) The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- 3 (Does Not Apply) The regulations do not apply to this emissions source. The regulations may have applicable requirements that could apply to this emissions source but the requirements do not currently apply to the source due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place.

Blank – The regulations clearly do not apply to this type of emission source.



## **TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS**

### **KEY TO MATRIX**

- 1 (Applicable) The regulations have applicable requirements that apply to this particular emissions source. This includes any monitoring, recordkeeping, or reporting requirements.
- 2 (Exempt) The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
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Blank – The regulations clearly do not apply to this type of emission source.

**TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS**

For each Emission Point ID Number:

- List each regulation that applies.
- Arrange the requirements imposed by each regulation according to the headings provided below.
- Repeat this process for each regulation that applies to each source.
- State-only Requirements should be noted as such in the appropriate column.

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/Frequency	State Only Requirement
Facility Wide	LAC 33:III Chapter 9: General Regulations on Control of Emissions and Emission Standards	<b>Requirements that specify reports to be submitted</b> — Unauthorized discharges into the atmosphere shall be reported according to LAC 33:1.3925.	LAC 33:III.927	As necessary	Yes
Facility Wide	LAC 33:III Chapter 11 — Control of Emissions of Smoke	<b>Requirements that limit emissions or operations</b> - Emission of smoke which passes onto or across a public road and creates a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensifies an existing traffic hazard condition is prohibited.	LAC 33:III.1103	NA	Yes
Facility Wide	LAC 33:III Chapter 13 — Emission Standards for Particulate Matter	<b>Requirements that limit emissions or operations</b> — Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.	LAC 33:III.1303.B	NA	Yes
Facility Wide	LAC 33:III Chapter 13 — Emission Standards for Particulate Matter	<b>Requirements that limit emissions or operations</b> — All reasonable precautions shall be taken to prevent particulate matter from becoming airborne.	LAC 33:111.1305.A	NA	Yes
Facility Wide	LAC 33:III Chapter 21 — Control of Emission of Organic Compounds	<b>Requirements that limit emissions or operations</b> — Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.	LAC 33:111.2113.A	NA	Yes

**TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS**

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/Frequency	State Only Requirement
Facility Wide	LAC 33:III Chapter 29 — Odor Regulations	<b>Requirements that limit emissions or operations</b> — Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.	LAC 33:III.2901.D	NA	Yes
Facility Wide	LAC 33:III Chapter 29 — Odor Regulations	<b>Requirements that limit emissions or operations</b> — If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.	LAC 33:III.2901.F	NA	Yes
23-01, Thermal Oxidizer; 23-01(a), Tire Skid Pyr Furnace; 23-01(b), Tire Skid Char Furnace; 23-01(d), Plastic Skid Pyr Furnace; 23-01(e), Plastic Skid Char Furnace	LAC 33:III Chapter 11 — Control of Emissions of Smoke	<b>Requirements that limit emissions or operations</b> — Opacity <=20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.	LAC 33:III.1101.B	NA	Yes
23-01, Thermal Oxidizer; 23-01(a), Tire Skid Pyr Furnace; 23-01(b), Tire Skid Char Furnace; 23-01(d), Plastic Skid Pyr Furnace; 23-01(e), Plastic Skid Char Furnace; 23-02, Cooling Tower	LAC 33:III Chapter 13 — Emission Standards for Particulate Matter	<b>Requirements that limit emissions or operations</b> — The emission of particulate matter from any source other than sources covered under Subsection D of this Section shall be controlled so that the shade or appearance of the emission is not denser than 20 percent average opacity (see LAC 33:III.1503.D.2, Table 4); except the emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.	LAC 33:III.1311.C	Continuous	Yes



**TABLE 3: EXPLANATION FOR EXEMPTION STATUS OR NON-APPLICABILITY OF A SOURCE**

<b>Emission Point ID No:</b>	<b>Requirement</b>	<b>Exempt or Does Not Apply</b>	<b>Explanation</b>	<b>Citation Providing for Exemption or Non-applicability</b>
Facility Wide	LAC 33:III Chapter 21 Waste Gas Disposal	Does Not Apply	The facility does not have the potential to emit greater than 100 tons per year VOCs.	LAC 33:III.2115.A
Facility Wide	40 CFR 60 Subpart AAAA- NSPS for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999	Exempt	The proposed facility is a pyrolysis unit located at a rubber recycling unit and does not directly combust any waste.	60.1020(h)
Facility Wide	40 CFR 63 Subpart VVVVVV NESHAPs for Chemical Manufacturing Area Sources	Does Not Apply	The facility does not contain a HAP as listed in Table 1.	63.11494(a)(2)
23-01, Thermal Oxidizer; 23-01(a), Tire Skid Pyr Furnace; 23-01(b), Tire Skid Char Furnace; 23-01(d), Plastic Skid Pyr Furnace; 23-01(e), Plastic Skid Char Furnace	LAC 33:III Chapter 15 Emission Standards for Sulfur Dioxide	Exempt	All individual combustion sources burn either a virgin fossil fuel such as Natural Gas or a plant derived fuel gas and will not exceed 5 tpy SOx emissions for any one source.	LAC 33:III.1502.A
23-02, Cooling Tower	NESHAP 40 CFR 63 Subpart Q- Industrial Process Cooling Towers	Exempt	Facility does not use chromium-based water treatment chemicals.	40 CFR 63.400
23-03, Loading Emissions	LAC 33:III Chapter 21 Control of Emission of Organic Compounds	Exempt	The source does not load a VOC with a vapor pressure greater than 1.5 psia.	LAC 33:III.2107.A
23-06, Tire Skid Pyr Oil Storage Tank; 23-09, Plastic Skid Pyr Oil Storage Tank	LAC 33:III Chapter 21 Storage of Volatile Organic Liquids	Exempt	The vessels do not contain a VOC with a vapor pressure greater than 1.5 psia.	LAC 33:III.2103.A

**TABLE 3: EXPLANATION FOR EXEMPTION STATUS OR NON-APPLICABILITY OF A SOURCE**

<b>Emission Point ID No:</b>	<b>Requirement</b>	<b>Exempt or Does Not Apply</b>	<b>Explanation</b>	<b>Citation Providing for Exemption or Non-applicability</b>
23-06, Tire Skid Pyr Oil Storage Tank; 23-09, Plastic Skid Pyr Oil Storage Tank	40 CFR 60 Subpart Kb Volatile Organic Liquid Storage	Does Not Apply	Capacity of storage tank is <19,815 gals therefore, this tank is not subject to NSPS Subpart Kb.	40 CFR 60.110b(a)
FUG-01, Tire Skid Fugitive Leak Emissions; FUG-02, Plastic Skid Fugitive Leak Emissions	LAC 33:III Chapter 21 Fugitive Emission Control	Does Not Apply	The facility is not a listed affected source for this chapter.	LAC 33:III.2122

The above table provides explanation for either the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Table 1 of this application.



**Appendix B**  
**Emissions Inventory Questionnaires (EIQs)**

---

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Date of submittal				
										Nov	2023			
Emission Point ID No. (Designation)		Descriptive Name of the Emissions Source (Alt. Name)				Approximate Location of Stack or Vent (see instructions)								
23-01		Thermal Oxidizer				Method		20,"Interpolation - Satellite"		Datum		WGS84		
Tempo Subject Item ID No.		Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )		Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, <u>not</u> at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification		Percent of Annual Throughput Through This Emission Point			
TBD		6 ft 28.274 ft <sup>2</sup>		50 ft	1.71 ft/sec	2,900 ft <sup>3</sup> /min	302 °F	8760 hr/yr			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
yes											25%	25%	25%	25%
Fuel	Type of Fuel Used and Heat Input (see instructions)			Operating Parameters (include units)										
		Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description								
a		Natural Gas / Syngas	0.55	Normal Operating Rate/Throughput		0.55 MMBtu/hr								
b				Maximum Operating Rate/Throughput		0.55 MMBtu/hr								
c				Design Capacity/Volume/Cylinder Displacement		N/A								
Notes				Shell Height (ft)		N/A								
23-01 Thermal Oxidizer includes emissions from 23-01(a), 23-01(b), 23-01(c), 23-01(d), 23-01(e), and 23-01(f).				Tank Diameter (ft)		N/A								
				Tanks:		<input type="checkbox"/> Fixed Roof		<input type="checkbox"/> Floating Roof		<input type="checkbox"/> External		<input type="checkbox"/> Internal		
				Date Engine Ordered				Engine Model Year						
				Date Engine Was Built by Manufacturer										
				SI Engines:		<input type="checkbox"/> Rich Burn		<input type="checkbox"/> Lean Burn		<input type="checkbox"/> 2 Stroke		<input type="checkbox"/> 4 Stroke		
Emission Point ID No. (Designation)		Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack			
Pollutant					Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)					Annual (tons/yr)		
23-01														
Particulate matter (PM <sub>10</sub> )					0.048	0.058	0.21	---	A	gr/std ft <sup>3</sup>				
Particulate matter (PM <sub>2.5</sub> )					0.048	0.058	0.21	---	A	gr/std ft <sup>3</sup>				
Sulfur dioxide					2.849	3.419	12.48	---	A	ppm by vol				
Nitrogen oxides					2.673	3.208	11.71	---	A	ppm by vol				
Carbon monoxide					18.380	22.056	80.51	---	A	ppm by vol				
Total VOC (including those listed below)					0.040	0.048	0.17	---	A	ppm by vol				
Formaldehyde				00050-00-0	< 0.001	< 0.001	< 0.01	---	A	ppm by vol				
n-Hexane				00110-54-3	0.001	0.002	0.01	---	A	ppm by vol				
Hydrochloric acid				07647-01-0	0.115	0.138	0.50	---	A	ppm by vol				

Emission Point ID No. (Designation) 23-01	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)			
Hydrofluoric acid			07664-39-3	0.034	0.041	0.15	---	A		ppm by vol

**State of Louisiana**  
**Emissions Inventory Questionnaire (EIQ) for Air Pollutants**

Date of submittal  
 Nov | 2023

<b>Emission Point ID No. (Designation)</b> 23-02	<b>Descriptive Name of the Emissions Source (Alt. Name)</b>  Cooling Tower	<b>Approximate Location of Stack or Vent (see instructions)</b>			
<b>Tempo Subject Item ID No.</b> TBD		Method 20,"Interpolation - Satellite" Datum WGS84	UTM Zone 15 Horizontal 611598 mE Vertical 3312737 mN	Latitude 29 ° 56 ' 25 " 25 hundredths	Longitude -91 ° 50 ' 37 " 12 hundredths

<b>Stack and Discharge Physical Characteristics Change? (yes or no)</b>  yes	<b>Diameter (ft) or Stack Discharge Area (ft<sup>2</sup>)</b>  _____ ft _____ ft <sup>2</sup>	<b>Height of Stack Above Grade (ft)</b>  _____ ft	<b>Stack Gas Exit Velocity</b>  _____ ft/sec	<b>Stack Gas Flow at Conditions, not at Standard (ft<sup>3</sup>/min)</b>  _____ ft <sup>3</sup> /min	<b>Stack Gas Exit Temperature (°F)</b>  77 °F	<b>Normal Operating Time (hours per year)</b>  8760 hr/yr	<b>Date of Construction or Modification</b>  	<b>Percent of Annual Throughput Through This Emission Point</b>			
								Jan-Mar 25%	Apr-Jun 25%	Jul-Sep 25%	Oct-Dec 25%

<b>Fuel</b>	<b>Type of Fuel Used and Heat Input (see instructions)</b>		<b>Operating Parameters (include units)</b>			
	<b>Type of Fuel</b>	<b>Heat Input (MMBTU/hr)</b>	<b>Parameter</b>		<b>Description</b>	
	a N/A	N/A	Normal Operating Rate/Throughput		500 gpm	
	b		Maximum Operating Rate/Throughput		500 gpm	
c			Design Capacity/Volume/Cylinder Displacement		N/A	
<b>Notes</b>			Shell Height (ft)		N/A	
			Tank Diameter (ft)		N/A	
			<b>Tanks:</b> <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal			
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			<b>SI Engines:</b> <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke			

<b>Emission Point ID No. (Designation)</b> 23-02	<b>Control Equipment Code</b>	<b>Control Equipment Efficiency</b>	<b>HAP / TAP CAS Number</b>	<b>Proposed Emission Rates</b>			<b>Permitted Emission Rate (Current)</b>	<b>Add, Change, Delete, or Unchanged</b>	<b>Continuous Compliance Method</b>	<b>Concentration in Gases Exiting at Stack</b>
				<b>Average (lb/hr)</b>	<b>Maximum (lbs/hr)</b>	<b>Annual (tons/yr)</b>				
<b>Pollutant</b>										
Particulate matter (PM <sub>10</sub> )				1.031	2.063	4.52	---	A		gr/std ft <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )				1.031	2.063	4.52	---	A		gr/std ft <sup>3</sup>
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol

**State of Louisiana**  
**Emissions Inventory Questionnaire (EIQ) for Air Pollutants**

Date of submittal  
 Nov | 2023

<b>Emission Point ID No. (Designation)</b> 23-03	<b>Descriptive Name of the Emissions Source (Alt. Name)</b>  <b>Loading Emissions</b>	<b>Approximate Location of Stack or Vent (see instructions)</b> Method <u>20, "Interpolation - Satellite"</u> Datum <u>WGS84</u> UTM Zone <u>15</u> Horizontal <u>611537</u> mE Vertical <u>3312681</u> mN Latitude <u>29 °</u> <u>56 '</u> <u>23 "</u> <u>45</u> hundredths Longitude <u>-91 °</u> <u>50 '</u> <u>39 "</u> <u>39</u> hundredths
<b>Tempo Subject Item ID No.</b>  TBD		

<b>Stack and Discharge Physical Characteristics Change? (yes or no)</b>  yes _____	<b>Diameter (ft) or Stack Discharge Area (ft<sup>2</sup>)</b>  _____ ft _____ ft <sup>2</sup>	<b>Height of Stack Above Grade (ft)</b>  _____ ft	<b>Stack Gas Exit Velocity</b>  _____ ft/sec	<b>Stack Gas Flow at Conditions, not at Standard (ft<sup>3</sup>/min)</b>  _____ ft <sup>3</sup> /min	<b>Stack Gas Exit Temperature (°F)</b>  77 °F	<b>Normal Operating Time (hours per year)</b>  8760 hr/yr	<b>Date of Construction or Modification</b>  	<b>Percent of Annual Throughput Through This Emission Point</b>								
								<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Jan-Mar</td> <td>Apr-Jun</td> <td>Jul-Sep</td> <td>Oct-Dec</td> </tr> <tr> <td>25%</td> <td>25%</td> <td>25%</td> <td>25%</td> </tr> </table>	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	25%	25%	25%	25%
Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec													
25%	25%	25%	25%													

<b>Fuel</b>	<b>Type of Fuel Used and Heat Input (see instructions)</b>		<b>Operating Parameters (include units)</b>				
		<b>Type of Fuel</b>	<b>Heat Input (MMBTU/hr)</b>			<b>Parameter</b>	<b>Description</b>
	a	N/A	N/A	Normal Operating Rate/Throughput		20,000,000	gal/yr
	b			Maximum Operating Rate/Throughput		20,000,000	gal/yr
c			Design Capacity/Volume/Cylinder Displacement		N/A		
<b>Notes</b>			Shell Height (ft)		N/A		
			Tank Diameter (ft)		N/A		
			<b>Tanks:</b> <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal				
			Date Engine Ordered			Engine Model Year	
			Date Engine Was Built by Manufacturer				
			<b>SI Engines:</b> <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke				

Emission Point ID No. (Designation)	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
Pollutant				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)			
Total VOC (including those listed below)				0.032	0.038	0.14	---	A		ppm by vol
Cumene			00098-82-8	0.014	0.017	0.06	---	A		ppm by vol
Ethyl benzene			00100-41-4	0.027	0.032	0.12	---	A		ppm by vol
Styrene			00100-42-5	0.018	0.021	0.08	---	A		ppm by vol
Xylene (mixed isomers)			#N/A	0.032	0.038	0.14	---	A		ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol



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Emission Point ID No. (Designation) 23-04	Descriptive Name of the Emissions Source (Alt. Name) Tire Skid Feed Hopper Purge Vent	Approximate Location of Stack or Vent (see instructions)					
		Method	20,"Interpolation - Satellite"		Datum	WGS84	
Tempo Subject Item ID No. TBD		UTM Zone	15	Horizontal	611619 mE	Vertical	3312856 mN
		Latitude	29 °		56 '		29 "
		Longitude	-91 °		50 '		30 "

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point			
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
yes	0.25 ft 0.049 ft <sup>2</sup>	30 ft	0.07 ft/sec	0.196 ft <sup>3</sup> /min	208 °F	8760 hr/yr		25%	25%	25%	25%

Fuel	Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)			
	Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description	
a	N/A	N/A	Normal Operating Rate/Throughput	1.18	tons/hr	
b			Maximum Operating Rate/Throughput	1.30	tons/hr	
c			Design Capacity/Volume/Cylinder Displacement	N/A		
Notes			Shell Height (ft)	N/A		
			Tank Diameter (ft)	N/A		
			Tanks:	<input type="checkbox"/> Fixed Roof	<input type="checkbox"/> Floating Roof	<input type="checkbox"/> External <input type="checkbox"/> Internal
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			SI Engines:	<input type="checkbox"/> Rich Burn	<input type="checkbox"/> Lean Burn	<input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke

Emission Point ID No. (Designation) 23-04	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Particulate matter (PM <sub>10</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Sulfur dioxide				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Nitrogen oxides				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Carbon monoxide				0.152	0.182	0.67	---	A		ppm by vol
Total VOC (including those listed below)				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrochloric acid			07647-01-0	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrofluoric acid			07664-39-3	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
										ppm by vol

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Emission Point ID No. (Designation) 23-05	Descriptive Name of the Emissions Source (Alt. Name) Tire Skid Char Storage Purge Vent	Approximate Location of Stack or Vent (see instructions)			
		Method 20,"Interpolation - Satellite"	Datum WGS84		
Tempo Subject Item ID No. TBD		UTM Zone 15	Horizontal 611612 mE	Vertical 3312821 mN	
		Latitude 29 °	56 '	27 "	99 hundredths
		Longitude -91 °	50 '	36 "	57 hundredths

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point			
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
yes	0.25 ft 0.049 ft <sup>2</sup>	30 ft	0.02 ft/sec	0.049 ft <sup>3</sup> /min	120 °F	8760 hr/yr		25%	25%	25%	25%

Fuel	Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)			
	Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description	
a	N/A	N/A	Normal Operating Rate/Throughput	0.09	tons/hr	
b			Maximum Operating Rate/Throughput	0.10	tons/hr	
c			Design Capacity/Volume/Cylinder Displacement	N/A		
Notes			Shell Height (ft)	N/A		
			Tank Diameter (ft)	N/A		
			Tanks: <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal			
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			SI Engines: <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke			

Emission Point ID No. (Designation) 23-05	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Particulate matter (PM <sub>10</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Sulfur dioxide				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Nitrogen oxides				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Carbon monoxide				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Total VOC (including those listed below)				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrochloric acid			07647-01-0	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrofluoric acid			07664-39-3	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
										ppm by vol

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Emission Point ID No. (Designation) 23-06	Descriptive Name of the Emissions Source (Alt. Name) Tire Skid Pyr Oil Storage Tank	Approximate Location of Stack or Vent (see instructions)			
		Method 20,"Interpolation - Satellite"	Datum WGS84		
Tempo Subject Item ID No. TBD		UTM Zone 15	Horizontal 611636 mE	Vertical 3312657 mN	
		Latitude 29 °	56 '	22 "	65 hundredths
		Longitude -91 °	50 '	35 "	71 hundredths

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point			
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
yes	0.33 ft 0.086 ft <sup>2</sup>	24 ft	0.19 ft/sec	1 ft <sup>3</sup> /min	95 °F	8760 hr/yr		25%	25%	25%	25%

Fuel	Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)			
	Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description	
a	N/A	N/A	Normal Operating Rate/Throughput	10,000,000	gal/yr	
b			Maximum Operating Rate/Throughput	10,000,000	gal/yr	
c			Design Capacity/Volume/Cylinder Displacement	N/A		
Notes			Shell Height (ft)	21	ft	
			Tank Diameter (ft)	11	ft	
			Tanks: <input checked="" type="checkbox"/> Fixed Roof	<input type="checkbox"/> Floating Roof	<input type="checkbox"/> External	<input type="checkbox"/> Internal
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			SI Engines: <input type="checkbox"/> Rich Burn	<input type="checkbox"/> Lean Burn	<input type="checkbox"/> 2 Stroke	<input type="checkbox"/> 4 Stroke

Emission Point ID No. (Designation) 23-06	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Total VOC (including those listed below)				0.189	0.189	0.83	---	A		ppm by vol
Cumene			00098-82-8	0.086	0.086	0.38	---	A		ppm by vol
Ethyl benzene			00100-41-4	0.161	0.161	0.70	---	A		ppm by vol
Styrene			00100-42-5	0.105	0.105	0.46	---	A		ppm by vol
Xylene (mixed isomers)			#N/A	0.189	0.189	0.83	---	A		ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol

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<b>Emission Point ID No. (Designation)</b> 23-07	<b>Descriptive Name of the Emissions Source (Alt. Name)</b>  Plastic Skid Feed Hopper Purge Vent	<b>Approximate Location of Stack or Vent (see instructions)</b>			
<b>Tempo Subject Item ID No.</b>  TBD		Method 20,"Interpolation - Satellite" Datum WGS84	UTM Zone 15 Horizontal 611649 mE Vertical 3312859 mN	Latitude 29 ° 56 ' 29 " 21 hundredths	Longitude -91 ° 50 ' 35 " 16 hundredths

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, <u>not</u> at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point			
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
yes	0.25 ft 0.049 ft <sup>2</sup>	30 ft	0.04 ft/sec	0.123 ft <sup>3</sup> /min	208 °F	8760 hr/yr		25%	25%	25%	25%

Fuel	Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)			
	Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description	
	a	N/A	Normal Operating Rate/Throughput	1.18	tons/hr	
	b		Maximum Operating Rate/Throughput	1.30	tons/hr	
c		Design Capacity/Volume/Cylinder Displacement	N/A			
Notes			Shell Height (ft)	N/A		
			Tank Diameter (ft)	N/A		
			<b>Tanks:</b> <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal			
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			<b>SI Engines:</b> <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke			

Emission Point ID No. (Designation)	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
23-07										
Pollutant										
Particulate matter (PM <sub>10</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Sulfur dioxide				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Nitrogen oxides				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Carbon monoxide				0.080	0.096	0.35	---	A		ppm by vol
Total VOC (including those listed below)				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrochloric acid			07647-01-0	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrofluoric acid			07664-39-3	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
										ppm by vol

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Emission Point ID No. (Designation) 23-08	Descriptive Name of the Emissions Source (Alt. Name) Plastic Skid Char Storage Purge Vent	Approximate Location of Stack or Vent (see instructions)			
		Method 20,"Interpolation - Satellite"	Datum WGS84		
Tempo Subject Item ID No. TBD		UTM Zone 15	Horizontal 611611 mE	Vertical 3312807 mN	
		Latitude 29 °	56 '	27 "	54 hundredths
		Longitude -91 °	50 '	36 "	60 hundredths

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point			
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
yes	0.25 ft 0.049 ft <sup>2</sup>	30 ft	0.02 ft/sec	0.049 ft <sup>3</sup> /min	120 °F	8760 hr/yr		25%	25%	25%	25%

Fuel	Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)			
	Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description	
a	N/A	N/A	Normal Operating Rate/Throughput	0.09	tons/hr	
b			Maximum Operating Rate/Throughput	0.10	tons/hr	
c			Design Capacity/Volume/Cylinder Displacement	N/A		
Notes			Shell Height (ft)	N/A		
			Tank Diameter (ft)	N/A		
			Tanks: <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal			
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			SI Engines: <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke			

Emission Point ID No. (Designation) 23-08	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Particulate matter (PM <sub>10</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )				< 0.001	< 0.001	< 0.01	---	A		gr/std ft <sup>3</sup>
Sulfur dioxide				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Nitrogen oxides				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Carbon monoxide				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Total VOC (including those listed below)				< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrochloric acid			07647-01-0	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
Hydrofluoric acid			07664-39-3	< 0.001	< 0.001	< 0.01	---	A		ppm by vol
										ppm by vol

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Emission Point ID No. (Designation)		Descriptive Name of the Emissions Source (Alt. Name)				Approximate Location of Stack or Vent (see instructions)									
23-09		Plastic Skid Pyr Oil Storage Tank				Method <u>20,"Interpolation - Satellite"</u> Datum <u>WGS84</u> UTM Zone <u>15</u> Horizontal <u>611602</u> mE Vertical <u>3312661</u> mN Latitude <u>29</u> ° <u>56</u> ' <u>22</u> " <u>78</u> hundredths Longitude <u>-91</u> ° <u>50</u> ' <u>36</u> " <u>99</u> hundredths									
Tempo Subject Item ID No.		Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )		Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point					
TBD		<u>0.33</u> ft <u>0.086</u> ft <sup>2</sup>		<u>24</u> ft	<u>0.19</u> ft/sec	<u>1</u> ft <sup>3</sup> /min	<u>95</u> °F	<u>8760</u> hr/yr		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec		
Stack and Discharge Physical Characteristics Change? (yes or no)										<u>yes</u>	<u>25%</u>	<u>25%</u>	<u>25%</u>	<u>25%</u>	
Fuel	Type of Fuel Used and Heat Input (see instructions)			Operating Parameters (include units)											
	Type of Fuel		Heat Input (MMBTU/hr)	Parameter		Description									
	a	N/A		N/A		Normal Operating Rate/Throughput		10,000,000 gal/yr							
	b					Maximum Operating Rate/Throughput		10,000,000 gal/yr							
c					Design Capacity/Volume/Cylinder Displacement		N/A								
Notes				Shell Height (ft)		21 ft									
				Tank Diameter (ft)		11 ft									
				Tanks: <input checked="" type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal											
				Date Engine Ordered		Engine Model Year									
				Date Engine Was Built by Manufacturer											
				SI Engines: <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke											
Emission Point ID No. (Designation)		Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack				
Pollutant					Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)					Annual (tons/yr)			
Total VOC (including those listed below)					0.189	0.189	0.83	---	A		ppm by vol				
Cumene				00098-82-8	0.086	0.086	0.38	---	A		ppm by vol				
Ethyl benzene				00100-41-4	0.161	0.161	0.70	---	A		ppm by vol				
Styrene				00100-42-5	0.105	0.105	0.46	---	A		ppm by vol				
Xylene (mixed isomers)				#N/A	0.189	0.189	0.83	---	A		ppm by vol				
											ppm by vol				
											ppm by vol				
											ppm by vol				
											ppm by vol				

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Emission Point ID No. (Designation) FUG-01		Descriptive Name of the Emissions Source (Alt. Name) Tire Skid Fugitive Leak Emissions			Approximate Location of Stack or Vent (see instructions)							
Tempo Subject Item ID No. TBD					Method 20,"Interpolation - Satellite" Datum WGS84		UTM Zone 15 Horizontal 611601 mE Vertical 3312775 mN		Latitude 29 ° 56 ' 26 " 48 hundredths		Longitude -91 ° 50 ' 37 " 00 hundredths	
Stack and Discharge Physical Characteristics Change? (yes or no)  yes _____	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )  _____ ft _____ ft <sup>2</sup>	Height of Stack Above Grade (ft)  _____ ft	Stack Gas Exit Velocity  _____ ft/sec	Stack Gas Flow at Conditions, <u>not</u> at Standard (ft <sup>3</sup> /min)  _____ ft <sup>3</sup> /min	Stack Gas Exit Temperature (°F)  77 °F	Normal Operating Time (hours per year)  8760 hr/yr	Date of Construction or Modification  	Percent of Annual Throughput Through This Emission Point				
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	
								25%	25%	25%	25%	
Fuel	Type of Fuel Used and Heat Input (see instructions)			Operating Parameters (include units)								
		Type of Fuel	Heat Input (MMBTU/hr)			Parameter		Description				
	a	N/A	N/A	Normal Operating Rate/Throughput		N/A						
	b			Maximum Operating Rate/Throughput		N/A						
c				Design Capacity/Volume/Cylinder Displacement		N/A						
Notes				Shell Height (ft)		N/A						
				Tank Diameter (ft)		N/A						
				Tanks: <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal								
				Date Engine Ordered				Engine Model Year				
				Date Engine Was Built by Manufacturer								
				SI Engines: <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke								
Emission Point ID No. (Designation) FUG-01	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack		
Pollutant				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)					Annual (tons/yr)
Total VOC (including those listed below)				0.212	---	0.93	---	A		ppm by vol		
										ppm by vol		
										ppm by vol		
										ppm by vol		
										ppm by vol		
										ppm by vol		
										ppm by vol		
										ppm by vol		
										ppm by vol		

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Emission Point ID No. (Designation) FUG-02	Descriptive Name of the Emissions Source (Alt. Name)  Plastic Skid Fugitive Leak Emissions	Approximate Location of Stack or Vent (see instructions)					
		Method	20,"Interpolation - Satellite"		Datum	WGS84	
Tempo Subject Item ID No.  TBD		UTM Zone	15	Horizontal	611601 mE	Vertical	3312775 mN
		Latitude	29 °		56 '		26 "
		Longitude	-91 °		50 '		37 "
							48 hundredths
							00 hundredths

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft <sup>2</sup> )	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, <u>not</u> at Standard (ft <sup>3</sup> /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point				
								Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	
yes	_____ ft _____ ft <sup>2</sup>	_____ ft	_____ ft/sec	_____ ft <sup>3</sup> /min	77 °F	8760 hr/yr			25%	25%	25%	25%

Fuel	Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)			
	Type of Fuel	Heat Input (MMBTU/hr)	Parameter		Description	
	a	N/A	Normal Operating Rate/Throughput		N/A	
	b		Maximum Operating Rate/Throughput		N/A	
c		Design Capacity/Volume/Cylinder Displacement		N/A		
Notes			Shell Height (ft)		N/A	
			Tank Diameter (ft)		N/A	
			Tanks: <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal			
			Date Engine Ordered		Engine Model Year	
			Date Engine Was Built by Manufacturer			
			SI Engines: <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn <input type="checkbox"/> 2 Stroke <input type="checkbox"/> 4 Stroke			

Emission Point ID No. (Designation) FUG-02	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Pollutant										
Total VOC (including those listed below)				0.212	---	0.93	---	A		ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol
										ppm by vol



**Appendix C**  
**Air Emission Calculations**

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**Description of Source**

Various exhaust and syngas streams from the Tire Skid and Plastic Skid units are routed to a thermal oxidizer.

Annual Operation: 8,760 hrs/yr

**23-01 Thermal Oxidizer Total Emissions**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.044	---	0.048	0.058	0.21
Particulate Matter (PM <sub>2.5</sub> )	0.044	---	0.048	0.058	0.21
Sulfur dioxide (SO <sub>2</sub> )	2.849	---	2.849	3.419	12.48
Nitrogen oxides (NO <sub>x</sub> )	2.646	---	2.673	3.208	11.71
Carbon monoxide (CO)	916.744	98%	18.380	22.056	80.51
Total VOC	1.230	97%	0.040	0.048	0.17
Formaldehyde	0.000	97%	0.000	0.000	0.00
Hexane	0.010	97%	0.001	0.002	0.01
Hydrochloric Acid (HCl)	0.115	---	0.115	0.138	0.50
Hydrofluoric Acid (HF)	0.034	---	0.034	0.041	0.15

<sup>(1)</sup> Emission rates are derived from vendor data and AP-42 1.4.

<sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency) + Average Natural Gas Combustion Emissions (lbs/hr)

<sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2

<sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

Annual Operation: 8,760 hrs/yr  
Total Natural Gas Usage: 0.55 MMBtu/hr

**23-01 Thermal Oxidizer Natural Gas Combustion Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/MMBtu)	Control Efficiency	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.0075	---	0.004	0.005	0.02
Particulate Matter (PM <sub>2.5</sub> )	0.0075	---	0.004	0.005	0.02
Sulfur dioxide (SO <sub>2</sub> )	0.0006	---	0.000	0.000	0.00
Nitrogen oxides (NO <sub>x</sub> )	0.0490	---	0.027	0.032	0.12
Carbon monoxide (CO)	0.0824	---	0.045	0.054	0.20
Total VOC	0.0054	---	0.003	0.004	0.01
Formaldehyde	0.0001	---	0.000	0.000	0.00
Hexane	0.0018	---	0.001	0.001	0.00

<sup>(1)</sup> Emission factors are from AP-42 1.4.

<sup>(2)</sup> Calculated as: Emission Factor (lbs/MMBtu) X Total Fuel Gas Usage (MMBtu/hr) X (1- Control Efficiency)

<sup>(3)</sup> Calculated as: Average (lbs/hr) X 1.2

<sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ (2,000 lbs/ton)

Annual Operation: 8,760 hrs/yr  
 Total Natural Gas Usage: 3.0 MMBtu/hr

**23-01(a) Tire Skid Pyr Furnace**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.022	---	0.022	0.027	0.10
Particulate Matter (PM <sub>2.5</sub> )	0.022	---	0.022	0.027	0.10
Sulfur dioxide (SO <sub>2</sub> )	1.044	---	1.044	1.253	4.57
Nitrogen oxides (NO <sub>x</sub> )	0.783	---	0.783	0.940	3.43
Carbon monoxide (CO)	0.391	---	0.391	0.470	1.71
Total VOC	0.039	---	0.039	0.047	0.17
Formaldehyde	0.000	---	0.000	0.000	0.00
Hexane	0.005	---	0.005	0.006	0.02
Hydrochloric Acid (HCl)	0.026	---	0.026	0.031	0.11
Hydrofluoric Acid (HF)	0.008	---	0.008	0.009	0.03

- <sup>(1)</sup> Emission rates are derived from vendor data. PM, Formaldehyde, and Hexane emissions are derived from AP-42 1.4.
- <sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency)
- <sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2
- <sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

Annual Operation: 8,760 hrs/yr  
 Total Natural Gas Usage: 0.2 MMBtu/hr

**23-01(b) Tire Skid Char Furnace**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.001	---	0.001	0.002	0.01
Particulate Matter (PM <sub>2.5</sub> )	0.001	---	0.001	0.002	0.01
Sulfur dioxide (SO <sub>2</sub> )	0.099	---	0.099	0.118	0.43
Nitrogen oxides (NO <sub>x</sub> )	0.074	---	0.074	0.089	0.32
Carbon monoxide (CO)	0.037	---	0.037	0.044	0.16
Total VOC	0.004	---	0.004	0.004	0.02
Formaldehyde	0.000	---	0.000	0.000	0.00
Hexane	0.000	---	0.000	0.000	0.00
Hydrochloric Acid (HCl)	0.002	---	0.002	0.003	0.01
Hydrofluoric Acid (HF)	0.001	---	0.001	0.001	0.00

- <sup>(1)</sup> Emission rates are derived from vendor data. PM, Formaldehyde, and Hexane emissions are derived from AP-42 1.4.
- <sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency)
- <sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2
- <sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

Annual Operation: 8,760 hrs/yr

**23-01(c) Tire Skid Syngas Scrubber**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.000	---	0.000	0.000	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.000	---	0.000	0.000	0.00
Sulfur dioxide (SO <sub>2</sub> )	13.660	98%	0.273	0.328	1.20
Nitrogen oxides (NO <sub>x</sub> )	0.205	---	0.205	0.246	0.90
Carbon monoxide (CO)	473.076	---	473.076	567.691	2072.07
Total VOC	0.512	---	0.512	0.615	2.24
Hydrochloric Acid (HCl)	0.007	---	0.007	0.008	0.03
Hydrofluoric Acid (HF)	0.002	---	0.002	0.002	0.01

- <sup>(1)</sup> Emission rates derived from vendor data.
- <sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency)
- <sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2
- <sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

Annual Operation: 8,760 hrs/yr  
 Total Natural Gas Usage: 2.5 MMBtu/hr

**23-01(d) Plastic Skid Pyr Furnace**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.019	---	0.019	0.022	0.08
Particulate Matter (PM <sub>2.5</sub> )	0.019	---	0.019	0.022	0.08
Sulfur dioxide (SO <sub>2</sub> )	1.388	---	1.388	1.666	6.08
Nitrogen oxides (NO <sub>x</sub> )	1.388	---	1.388	1.666	6.08
Carbon monoxide (CO)	1.041	---	1.041	1.249	4.56
Total VOC	0.104	---	0.104	0.125	0.46
Formaldehyde	0.000	---	0.000	0.000	0.00
Hexane	0.004	---	0.004	0.005	0.02
Hydrochloric Acid (HCl)	0.069	---	0.069	0.083	0.30
Hydrofluoric Acid (HF)	0.021	---	0.021	0.025	0.09

- <sup>(1)</sup> Emission rates are derived from vendor data. PM, Formaldehyde, and Hexane emissions are derived from AP-42 1.4.
- <sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency)
- <sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2
- <sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

Annual Operation: 8,760 hrs/yr  
 Total Natural Gas Usage: 0.2 MMBtu/hr

**23-01(e) Plastic Skid Char Furnace**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.001	---	0.001	0.002	0.01
Particulate Matter (PM <sub>2.5</sub> )	0.001	---	0.001	0.002	0.01
Sulfur dioxide (SO <sub>2</sub> )	0.045	---	0.045	0.054	0.20
Nitrogen oxides (NO <sub>x</sub> )	0.045	---	0.045	0.054	0.20
Carbon monoxide (CO)	0.034	---	0.034	0.040	0.15
Total VOC	0.003	---	0.003	0.004	0.01
Formaldehyde	0.000	---	0.000	0.000	0.00
Hexane	0.000	---	0.000	0.000	0.00
Hydrochloric Acid (HCl)	0.002	---	0.002	0.003	0.01
Hydrofluoric Acid (HF)	0.001	---	0.001	0.001	0.00

- <sup>(1)</sup> Emission rates are derived from vendor data. PM, Formaldehyde, and Hexane emissions are derived from AP-42 1.4.
- <sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency)
- <sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2
- <sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

Annual Operation: 8,760 hrs/yr

**23-01(f) Plastic Skid Syngas Scrubber**

Pollutant	Emission Rate <sup>(1)</sup> (lbs/hr)	Control Efficiency (%)	Emissions		
			Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.000	---	0.000	0.000	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.000	---	0.000	0.000	0.00
Sulfur dioxide (SO <sub>2</sub> )	0.000	98%	0.000	0.000	0.00
Nitrogen oxides (NO <sub>x</sub> )	0.151	---	0.151	0.182	0.66
Carbon monoxide (CO)	442.164	---	442.164	530.597	1936.68
Total VOC	0.567	---	0.567	0.681	2.48
Hydrochloric Acid (HCl)	0.008	---	0.008	0.009	0.03
Hydrofluoric Acid (HF)	0.002	---	0.002	0.003	0.01

- <sup>(1)</sup> Emission rates derived from vendor data.
- <sup>(2)</sup> Calculated as: Emission Rate (lbs/hr) X (1 - Control Efficiency)
- <sup>(3)</sup> Calculated as: Average Operating Rate (tons/hr) X 1.2
- <sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

**FusionOne  
New Iberia Facility  
Initial Minor Source Air Permit**

**Cooling Tower  
Emission Point No.: 23-02**

**Description of Source**

A cooling tower provides cooling water for the facility.

Hours of Operation: 8,760 hrs  
 Circulating Water: 500 gpm  
 Circulating Water: 30,000 gph  
 Dissolved Solids<sup>(1)</sup>: 0.172 lb/gal  
 Drift Emission Factor<sup>(1)</sup>: 0.0200%

Pollutant	Emission Rates <sup>(1)</sup>		
	Avg (lb/hr)	Max (lb/hr)	Annual (tons/yr)
Particulate Matter (PM <sub>10</sub> )	1.031	2.063	4.52
Particulate Matter (PM <sub>2.5</sub> )	1.031	2.063	4.52

<sup>(1)</sup> Calculated per methodology from AP-42 13.4, Wet Cooling Towers.

**Description of Source**

Pyrolysis Oil will be loaded onto both tank trucks and railcars. Exact composition of Pyrolysis oil may vary, so worst case emissions are provided. Anticipated TAPs are included; however, other non-TAP VOCs will be emitted.

**Railcar Loading Fugitive Emissions<sup>(1)</sup>**

saturation factor (*S*)<sup>(2)</sup> 1.45  
 temperature of bulk liquid loaded (*T*) 77 °F  
 temperature of bulk liquid loaded (*T*) 537 °R  
 collection efficiency (*eff*)<sup>(2)</sup> 98.7 %

Product	Throughput (gal/yr)	Vapor Pressure ( <i>P</i> ) (psia)	Vapor Molecular Weight ( <i>M</i> ) (lb/lbmol)	Emission Factor <sup>(3)</sup> (lb/10 <sup>3</sup> gal)	Total Emission Rates		
					Avg (lb/hr)	Max (lb/hr)	Annual (tons/yr)
Total VOC <sup>(4)</sup>	20,000,000	0.301	106.16	0.01396	0.032	0.038	0.14
Cumene	---	0.121	120.19	0.00634	0.014	0.017	0.06
Ethyl benzene	---	0.255	106.17	0.01185	0.027	0.032	0.12
Styrene	---	0.170	104.15	0.00776	0.018	0.021	0.08
Xylene	---	0.301	106.16	0.01396	0.032	0.038	0.14

<sup>(1)</sup> Pyrolysis oil will be loaded onto tank trucks and railcars for shipment offsite. Loading will occur under vapor balance service.

<sup>(2)</sup> Factors are taken from AP-42 Chapter 5.2, Transportation And Marketing Of Petroleum Liquids (6/08).

<sup>(3)</sup> Emission Factor Calculated according to methodology of AP-42 Chapter 5.2, Transportation And Marketing Of Petroleum Liquids (6/08).

<sup>(4)</sup> Xylene is the highest emitting component of all the anticipated components of the Pyrolysis oil.

Total VOC emissions assume 100% xylene as worst case.

**Description of Source**

The feed hopper to the Tire Skid is purged with inert Nitrogen. Trace amounts of various pollutants are emitted during the purge.

Annual Operation: 8,760 hrs/yr  
 Average Operating Rate Tire Feed Tons: 1.18 tons/hr  
 Maximum Operating Rate Tire Feed Tons: 1.30 tons/hr

**Summary of Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/ton)	Emissions		
		Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.00E+00	0.000	0.000	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.00E+00	0.000	0.000	0.00
Sulfur dioxide (SO <sub>2</sub> )	7.46E-05	0.000	0.000	0.00
Nitrogen oxides (NO <sub>x</sub> )	5.60E-05	0.000	0.000	0.00
Carbon monoxide (CO)	1.29E-01	0.152	0.182	0.67
Total VOC	1.40E-04	0.000	0.000	0.00
Hydrochloric Acid (HCl)	1.70E-06	0.000	0.000	0.00
Hydrofluoric Acid (HF)	5.65E-07	0.000	0.000	0.00

<sup>(1)</sup> Emission factors derived from vendor data.

<sup>(2)</sup> Calculated as: Emission Factor (lbs/ton) X Average Operating Rate (tons/hr)

<sup>(3)</sup> Calculated as: Emission Factor (lbs/ton) X Maximum Operating Rate (tons/hr)

<sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.



**Description of Source**

The char storage vessel of the Tire Skid is purged with inert Nitrogen. Trace amounts of various pollutants are emitted during the purge.

Annual Operation: 8,760 hrs/yr  
 Average Operating Rate Tire Char Tons: 0.09 tons/hr  
 Maximum Operating Rate Tire Char Tons: 0.10 tons/hr

**Summary of Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/ton)	Emissions		
		Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.00E+00	0.000	0.000	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.00E+00	0.000	0.000	0.00
Sulfur dioxide (SO <sub>2</sub> )	0.00E+00	0.000	0.000	0.00
Nitrogen oxides (NO <sub>x</sub> )	9.19E-05	0.000	0.000	0.00
Carbon monoxide (CO)	2.76E-04	0.000	0.000	0.00
Total VOC	1.38E-05	0.000	0.000	0.00
Hydrochloric Acid (HCl)	1.84E-05	0.000	0.000	0.00
Hydrofluoric Acid (HF)	5.51E-06	0.000	0.000	0.00

<sup>(1)</sup> Emission factors derived from vendor data.

<sup>(2)</sup> Calculated as: Emission Factor (lbs/ton) X Average Operating Rate (tons/hr)

<sup>(3)</sup> Calculated as: Emission Factor (lbs/ton) X Maximum Operating Rate (tons/hr)

<sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

**Description of Source**

A storage tank receives Pyrolysis oil from the Tire Skid unit prior to tank/railcar loading. Exact composition of Pyrolysis oil may vary, so worst case emissions are provided. Anticipated TAPs are included; however, other non-TAP VOCs will be emitted.

Pollutant	Emission Rates <sup>(1)</sup>		
	Avg (lb/hr)	Max (lb/hr)	Annual (tons/yr)
Total VOC <sup>(2)</sup>	0.189	0.189	0.83
Cumene	0.086	0.086	0.38
Ethyl benzene	0.161	0.161	0.70
Styrene	0.105	0.105	0.46
Xylene	0.189	0.189	0.83

<sup>(1)</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

<sup>(2)</sup> Xylene is the highest emitting component of all the anticipated components of the Pyrolysis oil. Total VOC emissions assume 100% xylene as worst case.

Tank Information		
Type	Vertical Fixed-Roof	
Shell Diameter	11	ft
Shell Height	21	ft
Average Height of Liquid	10.5	ft
Maximum Height of Liquid	21	ft
Throughput	10,000,000	gallons/year
Maximum Liquid Volume	14928.85	gallons
Turnovers	703.28	turnovers/year
Nearest City	Baton Rouge	
Insulation	Uninsulated	
Tank Paint		
Roof Color	Gray (Light)	
Roof Condition	New	
Shell Color	Gray (Light)	
Shell Condition	New	
Tank Roof		
Type	Dome	
Cone Slope (If Applicable)		ft/ft
Dome Radius (If Applicable)		ft
Vent Settings		
Breather Vent Pressure Setting	0.03	psig
Breather Vent Vacuum Setting	-0.03	psig
Tank Pressure	0	psig
Contents		
Tank Contents Cumene (isopropylbenzene)		

Constants		
Ideal Gas Constant	R	10.731 psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54
Paint Solar Absorptance	$\alpha_S$	0.54
Solar Insolation	I	1428.00 Btu/(ft <sup>2</sup> * day)

Emissions Summary		
Total Losses	$L_t$	752.09 lb/yr
Total Losses	$L_t$	0.086 lb/hr
Total Losses	$L_t$	0.38 ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Tire Skid Pyr Oil Storage Tank - Cumene**  
**Emission Point No.: 23-06**

Standing Losses	$L_s$	48.18 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.121 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.095 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.152 psia
Daily Vapor Press. Range	$\Delta P_V$	0.058 psia
Vapor Molecular Weight	$M_V$	120.19 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.05
Vapor Saturation Factor	$K_S$	0.93
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	703.91 lb/yr
Vapor Molecular Weight	$M_V$	120.19 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.12 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\Sigma H_{OI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Tire Skid Pyr Oil Storage Tank - Ethyl benzene**  
**Emission Point No.: 23-06**

<b>Tank Information</b>		
Type	Vertical Fixed-Roof	
Shell Diameter	11	ft
Shell Height	21	ft
Average Height of Liquid	10.5	ft
Maximum Height of Liquid	21	ft
Throughput	10,000,000	gallons/year
Maximum Liquid Volume	14928.85	gallons
Turnovers	703.28	turnovers/year
Nearest City	Baton Rouge	
Insulation	Uninsulated	
<b>Tank Paint</b>		
Roof Color	Gray (Light)	
Roof Condition	New	
Shell Color	Gray (Light)	
Shell Condition	New	
<b>Tank Roof</b>		
Type	Dome	
Cone Slope (If Applicable)		ft/ft
Dome Radius (If Applicable)		ft
<b>Vent Settings</b>		
Breather Vent Pressure Setting	0.03	psig
Breather Vent Vacuum Setting	-0.03	psig
Tank Pressure	0	psig
<b>Contents</b>		
Tank Contents	Ethyl benzene	

<b>Constants</b>		
Ideal Gas Constant	R	10.731 psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54
Paint Solar Absorptance	$\alpha_S$	0.54
Solar Insolation	I	1428.00 Btu/(ft <sup>2</sup> * day)

<b>Emissions Summary</b>		
Total Losses	$L_t$	1406.00 lb/yr
Total Losses	$L_t$	0.161 lb/hr
Total Losses	$L_t$	0.70 ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Tire Skid Pyr Oil Storage Tank - Ethyl benzene**  
**Emission Point No.: 23-06**

Standing Losses	$L_s$	89.97 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.255 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.204 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.317 psia
Daily Vapor Press. Range	$\Delta P_V$	0.114 psia
Vapor Molecular Weight	$M_V$	106.17 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.06
Vapor Saturation Factor	$K_S$	0.87
Stock Vapor Density	$W_V$	0.005 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	1316.03 lb/yr
Vapor Molecular Weight	$M_V$	106.17 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.26 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\sum H_{OI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.005 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

Tank Information		
Type	Vertical Fixed-Roof	
Shell Diameter	11	ft
Shell Height	21	ft
Average Height of Liquid	10.5	ft
Maximum Height of Liquid	21	ft
Throughput	10,000,000	gallons/year
Maximum Liquid Volume	14928.85	gallons
Turnovers	703.28	turnovers/year
Nearest City	Baton Rouge	
Insulation	Uninsulated	
Tank Paint		
Roof Color	Gray (Light)	
Roof Condition	New	
Shell Color	Gray (Light)	
Shell Condition	New	
Tank Roof		
Type	Dome	
Cone Slope (If Applicable)		ft/ft
Dome Radius (If Applicable)		ft
Vent Settings		
Breather Vent Pressure Setting	0.03	psig
Breather Vent Vacuum Setting	-0.03	psig
Tank Pressure	0	psig
Contents		
Tank Contents	Styrene	

Constants		
Ideal Gas Constant	R	10.731 psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54
Paint Solar Absorptance	$\alpha_S$	0.54
Solar Insolation	I	1428.00 Btu/(ft <sup>2</sup> * day)

Emissions Summary		
Total Losses	$L_t$	920.52 lb/yr
Total Losses	$L_t$	0.105 lb/hr
Total Losses	$L_t$	0.46 ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Tire Skid Pyr Oil Storage Tank - Styrene**  
**Emission Point No.: 23-06**

Standing Losses	$L_s$	58.83 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.170 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.136 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.212 psia
Daily Vapor Press. Range	$\Delta P_V$	0.077 psia
Vapor Molecular Weight	$M_V$	104.15 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.05
Vapor Saturation Factor	$K_S$	0.91
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	861.69 lb/yr
Vapor Molecular Weight	$M_V$	104.15 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.17 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\Sigma H_{QI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks



Tank Information			
Type	Vertical Fixed-Roof		
Shell Diameter	11	ft	
Shell Height	21	ft	
Average Height of Liquid	10.5	ft	
Maximum Height of Liquid	21	ft	
Throughput	10,000,000	gallons/year	
Maximum Liquid Volume	14928.85	gallons	
Turnovers	703.28	turnovers/year	
Nearest City	Baton Rouge		
Insulation	Uninsulated		
Tank Paint			
Roof Color	Gray (Light)		
Roof Condition	New		
Shell Color	Gray (Light)		
Shell Condition	New		
Tank Roof			
Type	Dome		
Cone Slope (If Applicable)		ft/ft	
Dome Radius (If Applicable)		ft	
Vent Settings			
Breather Vent Pressure Setting	0.03	psig	
Breather Vent Vacuum Setting	-0.03	psig	
Tank Pressure	0	psig	
Contents			
Tank Contents	Xylene(m-)		

Constants			
Ideal Gas Constant	R	10.731	psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54	
Paint Solar Absorptance	$\alpha_S$	0.54	
Solar Insolation	I	1428.00	Btu/(ft <sup>2</sup> * day)

Emissions Summary			
Total Losses	$L_t$	1656.11	lb/yr
Total Losses	$L_t$	0.189	lb/hr
Total Losses	$L_t$	0.83	ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Tire Skid Pyr Oil Storage Tank - Xylene**  
**Emission Point No.: 23-06**

Standing Losses	$L_s$	105.90 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.301 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.241 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.373 psia
Daily Vapor Press. Range	$\Delta P_V$	0.132 psia
Vapor Molecular Weight	$M_V$	106.16 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.06
Vapor Saturation Factor	$K_S$	0.85
Stock Vapor Density	$W_V$	0.006 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	1550.21 lb/yr
Vapor Molecular Weight	$M_V$	106.16 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.30 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\sum H_{OI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.006 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

**Description of Source**

The feed hopper to the Plastic Skid is purged with inert Nitrogen. Trace amounts of various pollutants are emitted during the purge.

Annual Operation: 8,760 hrs/yr  
 Average Operating Rate Tire Feed Tons: 1.18 tons/hr  
 Maximum Operating Rate Tire Feed Tons: 1.30 tons/hr

**Summary of Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/ton)	Emissions		
		Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.00E+00	0.000	0.000	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.00E+00	0.000	0.000	0.00
Sulfur dioxide (SO <sub>2</sub> )	0.00E+00	0.000	0.000	0.00
Nitrogen oxides (NO <sub>x</sub> )	2.33E-05	0.000	0.000	0.00
Carbon monoxide (CO)	6.82E-02	0.080	0.096	0.35
Total VOC	8.76E-05	0.000	0.000	0.00
Hydrochloric Acid (HCl)	1.06E-06	0.000	0.000	0.00
Hydrofluoric Acid (HF)	3.53E-07	0.000	0.000	0.00

<sup>(1)</sup> Emission factors derived from vendor data.

<sup>(2)</sup> Calculated as: Emission Factor (lbs/ton) X Average Operating Rate (tons/hr)

<sup>(3)</sup> Calculated as: Emission Factor (lbs/ton) X Maximum Operating Rate (tons/hr)

<sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

**Description of Source**

The char storage vessel of the Plastic Skid is purged with inert Nitrogen. Trace amounts of various pollutants are emitted during the purge.

Annual Operation: 8,760 hrs/yr  
 Average Operating Rate Tire Char Tons: 0.09 tons/hr  
 Maximum Operating Rate Tire Char Tons: 0.10 tons/hr

**Summary of Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/ton)	Emissions		
		Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Particulate Matter (PM <sub>10</sub> )	0.00E+00	0.000	0.000	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.00E+00	0.000	0.000	0.00
Sulfur dioxide (SO <sub>2</sub> )	0.00E+00	0.000	0.000	0.00
Nitrogen oxides (NO <sub>x</sub> )	9.19E-05	0.000	0.000	0.00
Carbon monoxide (CO)	2.76E-04	0.000	0.000	0.00
Total VOC	1.38E-05	0.000	0.000	0.00
Hydrochloric Acid (HCl)	1.84E-05	0.000	0.000	0.00
Hydrofluoric Acid (HF)	5.51E-06	0.000	0.000	0.00

<sup>(1)</sup> Emission factors derived from vendor data.

<sup>(2)</sup> Calculated as: Emission Factor (lbs/ton) X Average Operating Rate (tons/hr)

<sup>(3)</sup> Calculated as: Emission Factor (lbs/ton) X Maximum Operating Rate (tons/hr)

<sup>(4)</sup> Calculated as: Average hourly emissions (lbs/hr) X Annual Operation (hrs/yr) ÷ 2,000 lbs/ton.

**Description of Source**

A storage tank receives Pyrolysis oil from the Plastic Skid unit prior to tank/railcar loading. Exact composition of Pyrolysis oil may vary, so worst case emissions are provided. Anticipated TAPs are included; however, other non-TAP VOCs will be emitted.

Pollutant	Emission Rates <sup>(1)</sup>		
	Avg (lb/hr)	Max (lb/hr)	Annual (tons/yr)
Total VOC <sup>(2)</sup>	0.189	0.189	0.83
Cumene	0.086	0.086	0.38
Ethyl benzene	0.161	0.161	0.70
Styrene	0.105	0.105	0.46
Xylene	0.189	0.189	0.83

<sup>(1)</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

<sup>(2)</sup> Xylene is the highest emitting component of all the anticipated components of the Pyrolysis oil. Total VOC emissions assume 100% xylene as worst case.

FusionOne  
 New Iberia Facility  
 Initial Minor Source Air Permit

Plastic Skid Pyr Oil Storage Tank - Cumene  
 Emission Point No.: 23-09

Tank Information			
Type	Vertical Fixed-Roof		
Shell Diameter	11	ft	
Shell Height	21	ft	
Average Height of Liquid	10.5	ft	
Maximum Height of Liquid	21	ft	
Throughput	10,000,000	gallons/year	
Maximum Liquid Volume	14928.85	gallons	
Turnovers	703.28	turnovers/year	
Nearest City	Baton Rouge		
Insulation	Uninsulated		
Tank Paint			
Roof Color	Gray (Light)		
Roof Condition	New		
Shell Color	Gray (Light)		
Shell Condition	New		
Tank Roof			
Type	Dome		
Cone Slope (If Applicable)		ft/ft	
Dome Radius (If Applicable)		ft	
Vent Settings			
Breather Vent Pressure Setting	0.03	psig	
Breather Vent Vacuum Setting	-0.03	psig	
Tank Pressure	0	psig	
Contents			
Tank Contents Cumene (isopropylbenzene)			

Constants			
Ideal Gas Constant	R	10.731	psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54	
Paint Solar Absorptance	$\alpha_S$	0.54	
Solar Insolation	I	1428.00	Btu/(ft <sup>2</sup> * day)

Emissions Summary			
Total Losses	$L_t$	752.09	lb/yr
Total Losses	$L_t$	0.086	lb/hr
Total Losses	$L_t$	0.38	ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Plastic Skid Pyr Oil Storage Tank - Cumene**  
**Emission Point No.: 23-09**

Standing Losses	$L_s$	48.18 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.121 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.095 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.152 psia
Daily Vapor Press. Range	$\Delta P_V$	0.058 psia
Vapor Molecular Weight	$M_V$	120.19 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.05
Vapor Saturation Factor	$K_S$	0.93
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	703.91 lb/yr
Vapor Molecular Weight	$M_V$	120.19 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.12 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\Sigma H_{OI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

Tank Information			
Type	Vertical Fixed-Roof		
Shell Diameter	11	ft	
Shell Height	21	ft	
Average Height of Liquid	10.5	ft	
Maximum Height of Liquid	21	ft	
Throughput	10,000,000	gallons/year	
Maximum Liquid Volume	14928.85	gallons	
Turnovers	703.28	turnovers/year	
Nearest City	Baton Rouge		
Insulation	Uninsulated		
Tank Paint			
Roof Color	Gray (Light)		
Roof Condition	New		
Shell Color	Gray (Light)		
Shell Condition	New		
Tank Roof			
Type	Dome		
Cone Slope (If Applicable)		ft/ft	
Dome Radius (If Applicable)		ft	
Vent Settings			
Breather Vent Pressure Setting	0.03	psig	
Breather Vent Vacuum Setting	-0.03	psig	
Tank Pressure	0	psig	
Contents			
Tank Contents	Ethyl benzene		

Constants			
Ideal Gas Constant	R	10.731	psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54	
Paint Solar Absorptance	$\alpha_S$	0.54	
Solar Insolation	I	1428.00	Btu/(ft <sup>2</sup> * day)

Emissions Summary			
Total Losses	$L_t$	1406.00	lb/yr
Total Losses	$L_t$	0.161	lb/hr
Total Losses	$L_t$	0.70	ton/yr



**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Plastic Skid Pyr Oil Storage Tank - Ethyl benzene**  
**Emission Point No.: 23-09**

Standing Losses	$L_s$	89.97 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.255 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.204 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.317 psia
Daily Vapor Press. Range	$\Delta P_V$	0.114 psia
Vapor Molecular Weight	$M_V$	106.17 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.06
Vapor Saturation Factor	$K_S$	0.87
Stock Vapor Density	$W_V$	0.005 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	1316.03 lb/yr
Vapor Molecular Weight	$M_V$	106.17 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.26 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\Sigma H_{QI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.005 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

Tank Information			
Type	Vertical Fixed-Roof		
Shell Diameter	11	ft	
Shell Height	21	ft	
Average Height of Liquid	10.5	ft	
Maximum Height of Liquid	21	ft	
Throughput	10,000,000	gallons/year	
Maximum Liquid Volume	14928.85	gallons	
Turnovers	703.28	turnovers/year	
Nearest City	Baton Rouge		
Insulation	Uninsulated		
Tank Paint			
Roof Color	Gray (Light)		
Roof Condition	New		
Shell Color	Gray (Light)		
Shell Condition	New		
Tank Roof			
Type	Dome		
Cone Slope (If Applicable)		ft/ft	
Dome Radius (If Applicable)		ft	
Vent Settings			
Breather Vent Pressure Setting	0.03	psig	
Breather Vent Vacuum Setting	-0.03	psig	
Tank Pressure	0	psig	
Contents			
Tank Contents	Styrene		

Constants			
Ideal Gas Constant	R	10.731	psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54	
Paint Solar Absorptance	$\alpha_S$	0.54	
Solar Insolation	I	1428.00	Btu/(ft <sup>2</sup> * day)

Emissions Summary			
Total Losses	$L_t$	920.52	lb/yr
Total Losses	$L_t$	0.105	lb/hr
Total Losses	$L_t$	0.46	ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Plastic Skid Pyr Oil Storage Tank - Styrene**  
**Emission Point No.: 23-09**

Standing Losses	$L_s$	58.83 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.170 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.136 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.212 psia
Daily Vapor Press. Range	$\Delta P_V$	0.077 psia
Vapor Molecular Weight	$M_V$	104.15 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.05
Vapor Saturation Factor	$K_S$	0.91
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	861.69 lb/yr
Vapor Molecular Weight	$M_V$	104.15 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.17 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\Sigma H_{OI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.003 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

Tank Information			
Type	Vertical Fixed-Roof		
Shell Diameter	11	ft	
Shell Height	21	ft	
Average Height of Liquid	10.5	ft	
Maximum Height of Liquid	21	ft	
Throughput	10,000,000	gallons/year	
Maximum Liquid Volume	14928.85	gallons	
Turnovers	703.28	turnovers/year	
Nearest City	Baton Rouge		
Insulation	Uninsulated		
Tank Paint			
Roof Color	Gray (Light)		
Roof Condition	New		
Shell Color	Gray (Light)		
Shell Condition	New		
Tank Roof			
Type	Dome		
Cone Slope (If Applicable)		ft/ft	
Dome Radius (If Applicable)		ft	
Vent Settings			
Breather Vent Pressure Setting	0.03	psig	
Breather Vent Vacuum Setting	-0.03	psig	
Tank Pressure	0	psig	
Contents			
Tank Contents	Xylene(m-)		

Constants			
Ideal Gas Constant	R	10.731	psia * ft <sup>3</sup> /(lb-mole * °R)
Paint Solar Absorptance	$\alpha_R$	0.54	
Paint Solar Absorptance	$\alpha_S$	0.54	
Solar Insolation	I	1428.00	Btu/(ft <sup>2</sup> * day)

Emissions Summary			
Total Losses	$L_t$	1656.11	lb/yr
Total Losses	$L_t$	0.189	lb/hr
Total Losses	$L_t$	0.83	ton/yr

**FusionOne**  
**New Iberia Facility**  
**Initial Minor Source Air Permit**

**Plastic Skid Pyr Oil Storage Tank - Xylene**  
**Emission Point No.: 23-09**

Standing Losses	$L_s$	105.90 lb/yr
Min Daily Ambient Temp.	$T_{AN}$	517.67 °R
Max Daily Ambient Temp.	$T_{AX}$	537.47 °R
Avg. Daily Ambient Temp.	$T_{AA}$	527.57 °R
Liquid Bulk Temp.	$T_B$	554.67 °R
Average Vapor Temperature	$T_V$	536.92 °R
Daily Vapor Temp. Range	$\Delta T_V$	28.79 °R
Avg. Daily Liq. Surface Temp.	$T_{LA}$	545.79 °R
Min Daily Liq. Surface Temp.	$T_{LN}$	538.60 °R
Max Daily Liq. Surface Temp.	$T_{LX}$	552.99 °R
Atmospheric Pressure	$P_A$	14.7 psia
Vent Pressure Range	$\Delta P_B$	0.06 psia
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.301 psia
Vapor Pressure at $T_{LN}$	$P_{VN}$	0.241 psia
Vapor Pressure at $T_{LX}$	$P_{VX}$	0.373 psia
Daily Vapor Press. Range	$\Delta P_V$	0.132 psia
Vapor Molecular Weight	$M_V$	106.16 lb/lb-mole
Vapor Space Exp. Factor	$K_E$	0.06
Vapor Saturation Factor	$K_S$	0.85
Stock Vapor Density	$W_V$	0.006 lb/ft <sup>3</sup>
Vapor Space Outage	$H_{VO}$	11.25 ft
Shell Height	$H_S$	21.00 ft
Liquid Height	$H_L$	10.50 ft
Roof Height	$H_R$	1.47 ft
Cone Roof Slope	$S_R$	0.06 ft/ft
Shell Radius	$R_S$	5.50 ft
Dome Roof Radius	$R_R$	11.00 ft
Roof Outage	$H_{RO}$	0.75 ft

Working Losses	$L_w$	1550.21 lb/yr
Vapor Molecular Weight	$M_V$	106.16 lb/lb-mole
Vapor Pressure at $T_{LA}$	$P_{VA}$	0.30 psia
Turnovers	$N$	703.28
Sum of Increases in Liquid Level	$\Sigma H_{QI}$	14065.54 ft/yr
Max Height of Liquid	$H_{LX}$	21 ft
Net Working Loss Throughput	$V_Q$	1336693.40 ft <sup>3</sup> /yr
Stock Vapor Density	$W_V$	0.006 lb/ft <sup>3</sup>
$L_w$ Turnover Factor	$K_N$	0.21
$L_w$ Product Factor	$K_P$	1.00
Vent Correction Factor	$K_B$	1.00
Tank Pressure	$P_I$	0.00 psig
Vent Pressure Setting	$P_{BP}$	0.03 psig

Notes:

<sup>1</sup> AP-42 Chapter 7.1 (11/19): Section 7.1.3.1 - Routine Losses From Fixed Roof Tanks

**Description of Source**

Facility fugitive leak emissions are estimated based on equipment component counts.

**Summary of Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/hr)	Emission Factor <sup>(1)</sup> (lbs/MMBtu)	Control Efficiency	Emissions		
				Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(2)</sup> (tons/yr)
Total VOC	0.212	---	---	0.212	---	0.93

**Equipment Leak Fugitive Emissions**

Leaking components<sup>(1)</sup> 2%  
 Non-leaking components<sup>(1)</sup> 98%

Total VOCs						
Component Type and Service	Component Count	Leak Emission Factor <sup>(2)</sup> (kg/hr-comp.)	No-Leak Emission Factor <sup>(3)</sup> (kg/hr-comp.)	Average Emissions (lbs/hr)	Maximum Emissions (lbs/hr)	Annual Emissions (tpy)
Connectors - All	360	0.00025	7.50E-06	0.010	--	C.04
Valves - Gas	100	0.02680	7.80E-06	0.120	--	C.52
Valves - Light Liquid	100	0.01090	7.80E-06	0.050	--	C.22
Valves - Heavy Liquid	100	0.00023	7.80E-06	0.003	--	C.01
Pumps - Light Liquid	5	0.11400	2.40E-05	0.025	--	C.11
Pumps - Heavy Liquid	5	0.02100	2.40E-05	0.005	--	C.02
<b>Total VOC</b>				<b>0.212</b>	<b>--</b>	<b>0.93</b>

<sup>(1)</sup> Percentages of leaking components based on 98% non-leaking (0 range), and 2% leaking.

<sup>(2)</sup> Emission factors taken from EPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017, November 1995) Average Emission Factors (Table 2-2).

<sup>(3)</sup> Default Zero Values: Petroleum Industry (Table 2-12)

**Description of Source**

Facility fugitive leak emissions are estimated based on equipment component counts.

**Summary of Emissions**

Pollutant	Emission Factor <sup>(1)</sup> (lbs/hr)	Emission Factor <sup>(1)</sup> (lbs/MMBtu)	Control Efficiency	Emissions		
				Average <sup>(2)</sup> (lbs/hr)	Maximum <sup>(3)</sup> (lbs/hr)	Annual <sup>(4)</sup> (tons/yr)
Total VOC	0.212	---	---	0.212	---	0.93

**Equipment Leak Fugitive Emissions**

Leaking components<sup>(1)</sup> 2%  
 Non-leaking components<sup>(1)</sup> 98%

Total VOCs						
Component Type and Service	Component Count	Leak Emission Factor <sup>(2)</sup> (kg/hr-comp.)	No-Leak Emission Factor <sup>(3)</sup> (kg/hr-comp.)	Average Emissions (lbs/hr)	Maximum Emissions (lbs/hr)	Annual Emissions (tpy)
Connectors - All	360	0.00025	7.50E-06	0.010	--	0.04
Valves - Gas	100	0.02680	7.80E-06	0.120	--	0.52
Valves - Light Liquid	100	0.01090	7.80E-06	0.050	--	0.22
Valves - Heavy Liquid	100	0.00023	7.80E-06	0.003	--	0.01
Pumps - Light Liquid	5	0.11400	2.40E-05	0.025	--	0.11
Pumps - Heavy Liquid	5	0.02100	2.40E-05	0.005	--	0.02
<b>Total VOC</b>				<b>0.212</b>	<b>--</b>	<b>0.93</b>

<sup>(1)</sup> Percentages of leaking components based on 98% non-leaking (0 range), and 2% leaking.  
<sup>(2)</sup> Emission factors taken from EPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017, November 1995) Average Emission Factors (Table 2-2).  
<sup>(3)</sup> Default Zero Values: Petroleum Industry (Table 2-12)

**Appendix D**

**Certificate of Good Standing**

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Name	Type	City	Status
HME GLOBAL, LLC	Limited Liability Company	LAFAYETTE	Active

**Previous Names**

**Business:** HME GLOBAL, LLC  
**Charter Number:** 44072544K  
**Registration Date:** 9/15/2020  
**Domicile Address**

110 TRAVIS STREET  
SUITE 107  
LAFAYETTE, LA 70503

**Mailing Address**

110 TRAVIS STREET  
SUITE 107  
LAFAYETTE, LA 70503

**Status**

**Status:** Active  
**Annual Report Status:** In Good Standing  
**File Date:** 9/15/2020  
**Last Report Filed:** 9/11/2023  
**Type:** Limited Liability Company

**Registered Agent(s)**

**Agent:** RANDY ANGELLE  
**Address 1:** 401 E. MILLS AVE.  
**City, State, Zip:** BREAUX BRIDGE, LA 70517  
**Appointment Date:** 9/15/2020

**Officer(s)**

Additional Officers: No

**Officer:** MATTHEW EMORY  
**Title:** Member, Manager  
**Address 1:** 103 SOUTHWOOD DRIVE  
**City, State, Zip:** LAFAYETTE, LA 70503

**Officer:** ROYAL CRESCENT VENTURES, LLC  
**Title:** Member  
**Address 1:** 110 TRAVIS STREET  
**Address 2:** SUITE 107  
**City, State, Zip:** LAFAYETTE, LA 70503

**Amendments on File (1)**

Description	Date
Domestic LLC Agent/Domicile Change	10/13/2023

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