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Central Laboratory Services Title V Renewal Application

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION



DIVISION OF AIR QUALITY

601 57th Street SE

Charleston, WV 25304

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TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): E. I. du Pont de Nemours & Company	2. Facility Name or Location: DuPont Washington Works Segment 13 Of 14 Central laboratories Services
3. DAQ Plant ID No.: 1 0 7 — 0 0 0 0 1	4. Federal Employer ID No. (FEIN): 5 1 0 0 1 4 0 9 0
5. Permit Application Type: <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial Permit Application </div> <div> When did operations commence? 05/01/1948 What is the expiration date of the existing permit? 05/27/2014 </div> </div>	
6. Type of Business Entity: <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership </div> <div> <input type="checkbox"/> Governmental Agency <input type="checkbox"/> Limited Partnership </div> </div>	7. Is the Applicant the: <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both </div> If the Applicant is not both the owner and operator, please provide the name and address of the other party. _____ _____ _____
8. Number of onsite employees: 900	
9. Governmental Code: <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> State government owned and operated; 2 </div> <div> <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> District government owned and operated; 5 </div> </div>	
10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.	

11. Mailing Address		
Street or P.O. Box: P. O. Box 1217		
City: Washington	State: WV	Zip: 26181-1217
Telephone Number: (304) 863-4240 (gatehouse)	Fax Number: (304) 863-4862	

12. Facility Location		
Street: 8480 DuPont Road	City: Washington	County: Wood
UTM Easting: 442.368 km	UTM Northing: 4346.679 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: From I-77 take the Route 50 By-pass around parkersburg towards Ohio. At the last exit in west Virginia (DuPont Road) exit the divided highway. At the stop light turn left on to DuPont Road. Continue down DuPont Road approximately ½ mile. The plant will be visible on the right side of the road. Enter at the main gate.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, for what air pollutants?
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, name the affected state(s). Ohio
Is facility located within 100 km of a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, name the area(s).
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

13. Contact Information		
Responsible Official: Karl J. Boelter		Title: Plant Manager
Street or P.O. Box: P. O. Box 1217		
City: Washington	State: WV	Zip: 26181-1217
Telephone Number: (304) 863-4305	Fax Number: (304) 863-4862	
E-mail address: karl.j.boelter@dupont.com		
Environmental Contact: David F. Altman		Title: Sr. Envir. Control Consult.
Street or P.O. Box: P. O. Box 1217		
City: Washington	State: WV	Zip: 26181-1217
Telephone Number: (304) 863-4271	Fax Number: (304) 863-4862	
E-mail address: ALTMA2DF@nanotes1.email.dupont.com		
Application Preparer: John J. Mentink		Title: Technical Associate
Company: DuPont		
Street or P.O. Box: P. O. Box 1217		
City: Washington	State: WV	Zip: 26181-1217
Telephone Number: (304) 863-2028	Fax Number: (304) 863-4862	
E-mail address: john.j.mentink@usa.dupont.com		

14. Facility Description

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

Process Products		NAICS	SIC
Consolidation of Lab Services	Production facility support facility	325211	2821

Provide a general description of operations.

DuPont Washington Works is a multiple business, multiple product line facility that produces plastic resins and their associated feedstock materials. Central Laboratory Services is the result of consolidation of laboratory services involved with the final product qualification and testing, in intermediate process sample analysis, and raw material qualification. The area also maintains a small facility for environmental testing, principally for water and for OSHA compliance monitoring.

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

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

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

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS	<input type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input checked="" type="checkbox"/> 45CSR27 State enforceable only rule
<input type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> NO _x Budget Trading Program Non-EGUs (45CSR1)	<input type="checkbox"/> NO _x Budget Trading Program EGUs (45CSR26)

19. Non Applicability Determinations

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

- a. 40 C.F.R. 60, Subpart K - "Standards of Performance For Storage Vessels For Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978." There are no storage tanks in Central Laboratory Services.
- b. 40 C.F.R. 60, Subpart Ka - "Standards of Performance for Storage Vessels For Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984." There are no storage tanks in Central Laboratory Services.
- c. 40 C.F.R. 60, Subpart Kb - "Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984." There are no storage tanks in Central Laboratory Services.
- d. 40 C.F.R. 60, Subpart VV - "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry." Central Laboratory Services does not produce as intermediates or final products any of the materials listed in §60.489.
- e. 40 C.F.R. 60, Subpart DDD - "Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry." Central Laboratory Services does not manufacture polypropylene, polyethylene, polystyrene, or poly(ethylene terephthalate) for which this rule applies.
- f. 40 C.F.R. 60, Subpart RRR - "Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes." Central Laboratory Services does not produce any of the chemicals listed in §60.707 as a product, co-product, by-product, or intermediate.
- g. 40 C.F.R. 61, Subpart V - "National Emission Standards for Equipment Leaks (Fugitive Emissions Sources)." Applies to sources in VHAP service as defined in §61.241. VHAP service involves chemicals that are not used in a manner that qualifies them under the rule in Central Laboratory Services.
- h. 40 C.F.R. 63, Subpart H - "National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks." 40 C.F.R. 63 Subparts F, G, and H do not apply to manufacturing process units that do not meet the criteria in §§63.100(b)(1), (b)(2), and (b)(3).
- i. 40 C.F.R. 63, Subpart T - "National Emission Standards for Halogenated Solvent Cleaning." There are no solvent cleaning units in Central Laboratory Services using halogenated solvents as listed in §63.460(a).

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

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

- j. 40 C.F.R. 63, Subpart JJJ - "National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins." Central Laboratory Services does not produce the materials listed in §63.1310.
- k. 40 C.F.R. 63, Subpart EEEE – "National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)." Central Laboratory Services does not engage in the activities to distribute organic liquids.
- l. 40 C.F.R.63, Subpart FFFF – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing." Central Laboratory Services does not manufacture any material or family of materials defined in §63.2435(b)(1)(i) through (v).
- m. 40 C.F.R. 63, Subpart MMMM - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products." There are no surface coating activities conducted in Central Laboratory Services subject to the requirements of this rule.
- n. 40 C.F.R. 63, Subpart QQQQ - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products." The surface coating activities of Central Laboratory Services are excluded from the requirements of the rule because they are non-commercial operations using coatings supplied by non-refillable aerosol containers.
- o. 40 C.F.R. 63, Subpart RRRR - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture." The surface coating activities of Central Laboratory Services use non-refillable aerosol containers for the purpose of repairing furniture for on-site use and are excluded from the requirements of the rule.
- p. 40 C.F.R. 63, Subpart GGGG – "National Emission Standards for Hazardous Air Pollutants: Site Remediation." Central Laboratory does not conduct site remediations as defined in §63.7957.
- q. 40 C.F.R. 63, Subpart HHHHH – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing." Central Laboratory Services does not manufacturing coatings as defined in §63.8105.
- r. 40 C.F.R. 63, Subpart NNNNN – "National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production." Central Laboratory Services does not product a liquid HCl product.
- s. 40 C.F.R. 82, Subpart B - "Protection of Stratospheric Ozone." Requires recycling of Chlorofluorocarbons (CFCs) from motor vehicles and that technicians servicing equipment need to be licensed. Central Laboratory Services does not conduct motor vehicle maintenance involving CFCs on site.

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20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health. [40 C.F.R. 61 and 45CSR15]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown. [45CSR§13-10.5]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]
- 3.1.7. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]
- 3.1.8. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.
 [40 C.F.R. 82, Subpart F]

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20. Facility-Wide Applicable Requirements (continued)

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

- 3.1.9. **Risk Management Plan.** This stationary source, as defined in 40 C.F.R. § 68.3, is subject to Part 68. This stationary source shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. Part 68.10. This stationary source shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71. **[40 C.F.R. 68]**
- 3.1.10. **Fugitives.** No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable. **[45CSR§7-5.1.]**
- 3.1.11. **Fugitives.** The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment. **[45CSR§7-5.2.]**
- 3.1.12. Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures. **[45CSR§7-4.12.]**
- 3.1.13. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director. **[45CSR§7-9.1.]**
- 3.1.14. The permittee shall comply with all hourly and annual emission limits set forth by the affected 45CSR13 permits, for each of the sources and associated emission points identified in Attachment A of this permit. **[45CSR13, R13-2617, 4.1.1.]**
- The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A. The hourly and annual emission limits for the affected sources are provided in 5.1.1.
- 3.1.15. The permitted sources identified in Attachment A of permit R13-2617 and recognized as being subject to 45CSR21 shall comply with all applicable requirements of 45CSR21 – “Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds” provided, however, that compliance with any more stringent requirements under the affected 45CSR13 permit identified in Attachment A of permit R13-2617, are also demonstrated. The applicable requirements set forth by 45CSR21 shall include, but not be limited to, the following: **[45CSR13, R13-2617, 4.1.2.]**

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20. Facility-Wide Applicable Requirements (continued)

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

- a. The permittee shall maintain the aggregated hourly and annual VOC control efficiency of 90 % or greater, on a site-wide basis, for all existing sources listed or required to be listed as part of the original facility-wide Reasonably Available Control Measures (RACM) plan, as identified in Attachment A of permit R13-2617. **[45CSR13, R13-2617, 4.1.2.1.; 45CSR§21-40.3.a.1. (State Enforceable Only)]**
- b. On or after May 01, 1996, construction or modification of any emission source resulting in a maximum theoretical emissions (MTE) of VOCs equaling or exceeding six (6) pounds per hour and not listed or required to be listed in the facility-wide RACM plan shall require the prior approval by the Director of an emission control plan that meets the definition of reasonable available control technology (RACT) on a case-by-case basis for both fugitive and non-fugitive VOC emissions from such source. All sources constructed or modified on or after May 01, 1996 shall be subject to the following: **[45CSR13, R13-2617, 4.1.2.2.; 45CSR§21-40.3.c. (State Enforceable Only)]**
 - i. The RACT control plan(s) shall be embodied in a permit in accordance to 45CSR13. **[45CSR13, R13-2617, 4.1.2.2.a.; 45CSR§21-40.4.e. (State Enforceable Only)]**
 - ii. The MTE and associated emission reductions of the constructed or modified source will not be calculated into the site-wide aggregate hourly and annual emissions reduction requirements set forth in Section 3.1.15.a. of this permit. **[45CSR13, R13-2617, 4.1.2.2.b]**
- c. If a modification to an existing source with current MTE below the threshold of six (6) pounds per hour of VOCs causes an increase in the MTE that results in the source exceeding the six (6) pounds per hour threshold for the first time, the source shall be subject to RACT in accordance to Section 3.1.15.b. of this permit. **[45CSR13, R13-2617, 4.1.2.3.; 45CSR§21-40.3.c. (State Enforceable Only)]**
- d. Physical changes to or changes in the method of operation of an existing emission source listed or required to be listed as part of the facility-wide RACM plan, that results in an increase in VOC emissions of any amount, shall require the prior approval by the Director of an emission control plan that meets the definition of RACT on a case-by-case basis for both fugitive and non-fugitive VOC emissions from the source. All sources modified on or after May 01, 1996 shall be subject to the following: **[45CSR13, R13-2617, 4.1.2.4.; 45CSR§21-40.3.c. (State Enforceable Only)]**
 - i. The RACT control plan(s) shall be embodied in a permit in accordance to 45CSR13. **[45CSR13, R13-2617, 4.1.2.4.a.; 45CSR§21-40.4.e. (State Enforceable Only)]**
 - ii. The facility-wide RACM plan shall be modified to include the RACT analysis conducted on the modified source(s). **[45CSR13, R13-2617, 4.1.2.4.b.]**
 - iii. The MTE and associated emission reductions of the modified source shall be recalculated as part of the site-wide aggregate hourly and annual emissions reduction requirements to demonstrate compliance with the minimum 90% reduction rate as set forth in Section 3.1.15.a. of this permit. **[45CSR13, R13-2617, 4.1.2.4.c.]**



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20. Facility-Wide Applicable Requirements (continued)

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

- e. In the event the facility-wide RACM plan is modified to delete an existing emission source, and any associated pollution control equipment, due to the source being permanently removed from service, or reassigned to service not subject to the requirements of 45CSR§21-40, the MTE shall be recalculated to demonstrate that the 90% facility-wide VOC reduction requirement set forth in Section 3.1.15.a. of this permit is still being met. In the event such a modification results in the site-wide aggregate hourly and annual emissions reduction being recalculated to a rate less than 90%, the RACM plan shall be revised to include all new and/or modified sources and their associated control technologies constructed on or after May 01, 1996, in order to meet the requirements set forth in Section 3.1.15.a. of this permit. **[45CSR13, R13-2617, 4.1.2.5.]**
- f. In the event a source and associated emission point identified in Attachment A of permit R13-2617 is subject to the New Source Performance Standards (NSPS) of 40CFR60, the National Emission Standards for Hazardous Air Pollutants (NESHAP) of 40CFR61, or the Maximum Achievable Control Technology (MACT) standards of 40CFR63, then compliance with such requirements as defined in the affected 45CSR13 permit shall demonstrate compliance with the RACT requirements set forth in permit R13-2617. **[45CSR13, R13-2617, 4.1.2.6.]**

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

- 3.1.16. The permitted sources identified in Attachment A of permit R13-2617 and recognized as being subject to 45CSR27 shall comply with all applicable requirements of 45CSR27 – “To Prevent and Control the Emissions of Toxic Air Pollutants” provided, however, that compliance with any more stringent requirements under the affected 45CSR13 permit identified in Attachment A of permit R13-2617, are also demonstrated. The applicable requirements set forth by 45CSR27 shall include, but not be limited to, the following: **[45CSR13, R13-2617, 4.1.3.]**

- a. The permittee shall employ the best available technology (BAT) for the purpose of reducing toxic air pollutants (TAP) associated with the applicable sources and emission points identified in Attachment A of permit R13-2617. **[45CSR13, R13-2617, 4.1.3.1.; 45 CSR§27-3.1. (State Enforceable Only)]**
- b. The permittee shall employ BAT for the purpose of preventing and controlling fugitive emissions of TAP to the atmosphere as a result of routine leakage from those sources and their associated equipment identified in Attachment A of permit R13-2617 as operating in TAP service. **[45CSR13, R13-2617, 4.1.3.2.; 45 CSR§27-4.1. (State Enforceable Only)]**

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

- 3.1.17. In the event a source and associated emission point identified in Attachment A of permit R13-2617 are subject to the MACT standards of 40CFR63, then compliance with the applicable MACT requirements identified in the affected 45CSR13 permit shall demonstrate compliance with the BAT requirements set forth in 3.1.16. of permit R13-2617. **[45CSR13, R13-2617, 4.1.4.; 45 CSR§27-3.1. (State Enforceable Only)]**

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

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20. Facility-Wide Applicable Requirements (continued)

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

3.2. Monitoring Requirements

- 3.2.1. The permittee shall implement and maintain leak detection and repair (LDAR) programs for the reduction of fugitive VOC emissions in all manufacturing process units subject to 45CSR§21-40 producing a product or products intermediate or final, in excess of 1,000 megagrams (1,100 tons) per year in accordance with the applicable methods and criteria of 45CSR§21-37 or alternate procedures approved by the Director. Procedures approved by the Director 40CFR60, Subpart VV, 40CFR61, Subpart V, 40CFR63, Subpart H, 40CFR63, Subpart TT, 40CFR63, Subpart UU, 40CFR65, Subpart F, and 40CFR265, Subpart CC. This requirement shall apply to all units identified in Attachment A of permit R13-2617 irrespective of whether or not such units produce as intermediates or final products, substances on the lists contained with 40CFR60, 40CFR61, or 40CFR63. ~~NA~~ [45CSR13, R13-2617, 4.2.1.; 45 CSR§21-40.3.a.2. (State Enforceable Only)]

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

- 3.2.2. The permittee shall implement and maintain a LDAR program for the applicable sources and emission points identified in Attachment A of permit R13-2617 in order to reduce the emissions of TAP in accordance with the requirements of 40CFR63, Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks. Compliance with 40CFR63, Subpart H shall be considered demonstration of compliance with the provisions of 45CSR§27-4. - Fugitive Emissions of Toxic Air Pollutants. [45CSR13, R13-2617, 4.2.2.; 45 CSR§27-4.1. (State Enforceable Only)]

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

- 3.2.3. In the event a source and associated emission point identified in Attachment A of permit R13-2617 are subject to the MACT standards of 40CFR63, then compliance with any applicable LDAR program set forth by the MACT and identified in the affected 45CSR13 permit shall demonstrate compliance with the monitoring requirements set forth in this permit. [45 CSR13, R13-2617, 4.2.3.; 45CSR§21-37.1.c. (State Enforceable Only)]

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

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

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

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

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

3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:
- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.
 - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.
 - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CSR13]

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

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

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

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

- 3.3.2. Manufacturing process units may be exempted upon written request of the permittee to the Director. Exempted units are exempted from the frequency of testing as described in 45CSR§21-37, however, LDAR testing of this unit or certification of emission using approved fugitive emission factors will be required every three years, or upon request by the Director or his duly authorized representative. Waiver or scheduling of LDAR testing every three years may be granted by the Director if written request and justification are submitted by the permittee. Units exempted from testing which may be required under any other applicable State or Federal regulations, orders, or permits. The Director may periodically require verifications by the permittee that maintenance and repair procedures associated with approved exemptions are continued and practiced. **[45CSR13, R13-2617, 4.3.1.; 45CSR§21-40.3.a.2. (State Enforceable Only)]**
- 3.3.3. In the event a source and associated emission point identified in Attachment A of permit R13-2617 are subject to the MACT standards of 40CFR63, then compliance with the applicable LDAR testing requirements set forth by the MACT and identified in the affected 45CSR13 permit shall demonstrate compliance with the LDAR testing requirements set forth in this permit. **[45CSR13, R13-2617, 4.3.2.; 45CSR§21-37.1.c. (State Enforceable Only)]**

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
- a. The date, place as defined in this permit and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of the analyses; and
 - f. The operating conditions existing at the time of sampling or measurement. **[45CSR§30-5.1.c.2.A.; 45CSR13, R13-2617, 4.4.1.; R13-2654, 4.4.1.]**
- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records. **[45CSR§30-5.1.c.2.B.]**

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

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

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

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

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received. Such record shall contain an assessment of the validity of the complaints as well as any corrective actions taken. **[45CSR§30-5.1.c. State-Enforceable only.]**
- 3.4.4. **Fugitives.** The permittee shall monitor all fugitive particulate emission sources as required by 3.1.10 to ensure that a system to minimize fugitive emissions has been installed or implemented. Records shall be maintained on site for a period of no less than five (5) years stating the types of fugitive particulate capture and/or suppression systems used, the times these systems were inoperable, and the corrective actions taken to repair these systems. **[45CSR§30-5.1.c.]**
- 3.4.5. **Fugitives.** The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures as required by 3.1.11 applied at the facility. These records shall be maintained on site for a period of no less than five (5) years. **[45CSR§30-5.1.c.]**
- 3.4.6. Unless granted a variance pursuant to 45CSR21, Section 9.3, or as approved by the Director as part of a required Start-up, Shutdown, and Malfunction (SSM) Plan mandated under 40CFR63.6(e) or another applicable Section of 40CFR63, the owner or operator of the facility shall operate all emission control equipment listed in Attachment A of permit R13-2617 as part of the facility-wide control efficiency plan at all times the facilities are in operation or VOC emissions are occurring from these sources or activities. In the event of a malfunction, and a variance has not been granted, the production unit shall be shutdown or the activity discontinued as expeditiously as possible. The permittee shall comply with 45CSR21, Section 9.3 with respect to all periods of non-compliance with the emission limitations set forth in the affected 45CSR13 permits and the emissions reduction requests set forth in the facility-wide control efficiency plan resulting from unavoidable malfunctions of equipment. **[45CSR13, R13-2617, 4.4.4.]**
- The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.
- 3.4.7. The permittee shall maintain records of the results of all monitoring and inspections, emission control measures applied and the nature, timing, and results of repair efforts conducted in accordance to 45CSR27-10, and set forth in the affected 45CSR13 permits as identified in Attachment A of permit R13-2617. **[45CSR13, R13-2617, 4.4.5.]**
- The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. **[45CSR§§30-4.4. and 5.1.c.3.D.]**

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

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

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

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

- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45 CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
[45CSR§30-5.1.c.3.E.]

- 3.5.3. All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other persons or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
301 57th Street, SE
Charleston, WV 25304

Phone: 304/926-0475
FAX: 304/926-0479

If to the US EPA:

Associate Director
Office of Enforcement and Permits Review (3AP12)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
[45CSR§30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.
[45CSR§30-5.3.e.]
- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4.
[45CSR§30-5.1.c.3.A.]
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

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

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

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

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

3.5.8. Deviations.

- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
 1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
 2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
 3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
 4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.
[45CSR§30-5.1.c.3.B.]
- c. Every report submitted under this subsection shall be certified by a responsible official.
[45CSR§30.5.1.c.3.D.]

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.
[45CSR§30-4.3.h.1.B.]

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

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

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

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

- 3.5.10. The permittee shall submit to the DAQ a plan for complete, facility-wide implementation of RACT requirements within one hundred eighty (180) days of notification by the Director that a violation of the National Ambient Air Quality Standards (NAAQS) for ozone (that were in effect on or before May 01, 1996) has occurred. Such plan shall included those sources listed in Attachment A of permit R13-2617 as part of the site-wide control efficiency requirement and may contain an update of existing RACT analyses. Full implementation of such plan shall be completed within two (2) years of approval of the RACT plan by the Director. [45CSR13, R13-2617, 4.5.1.]

The R13-2617 Attachment A listing for those sources in the Central Laboratory Services Area only is provided in APPENDIX A.

3.6. Compliance Plan

- 3.6.1. NA

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

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

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
R13-2617F	March 29, 2012	NA
R13-2654B	January 11, 2013	NA
	/ /	

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
None NA		NA
	/ /	
	/ /	

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	0.0645
Nitrogen Oxides (NO _x) 0	.0096
Lead (Pb)	0.0
Particulate Matter (PM _{2.5}) ¹	0.0
Particulate Matter (PM ₁₀) 0.	98
Total Particulate Matter (TSP)	0.98
Sulfur Dioxide (SO ₂)	0.0
Volatile Organic Compounds (VOC)	0.541
Hazardous Air Pollutants ² Po	tential Emissions
Formaldehyde 0.	00165
HCl 0.	05
Methanol 0	.0184
Methylene Chloride	0.04
Toluene 0	.0414
Phenol 0.	00935
n-Hexane 0.	00035
m-Cresol 0.	00005
Tetrachloroethylene 0	.0002
Xylene 0.	00005
Regulated Pollutants other than Criteria and HAP	Potential Emissions
¹ PM _{2.5} and PM ₁₀ are components of TSP. ² For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.	

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input checked="" type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input checked="" type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input checked="" type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: _____
<input type="checkbox"/>	20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____
<input checked="" type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input checked="" type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input checked="" type="checkbox"/>	32. Humidity chambers.
<input checked="" type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input checked="" type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input checked="" type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants
<input type="checkbox"/>	48. Shock chambers.
<input checked="" type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input checked="" type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input checked="" type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

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

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

Section 6: Certification of Information**28. Certification of Truth, Accuracy and Completeness and Certification of Compliance.**

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

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

b. Compliance Certification

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

Responsible official (type or print)

Name: Karl J. Boelter

Title: Plant Manager

Responsible official's signature:Signature: Signature Date: 9/19/13

(Must be signed and dated in blue ink)

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

<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s) [Not Required]
<input type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s) [Not Required]
<input type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s) [Not Required]

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

ATTACHMENT A – MAP TO FACILITY

DIRECTIONS:**FROM AIRPORT:**

1. Exit Airport Rd to Rte 31 S (right)
2. Rte 31 S to Rte 2 S (right)
3. Rte 2 S to Rte 68 S (Emerson Ave)

A) Washington Works

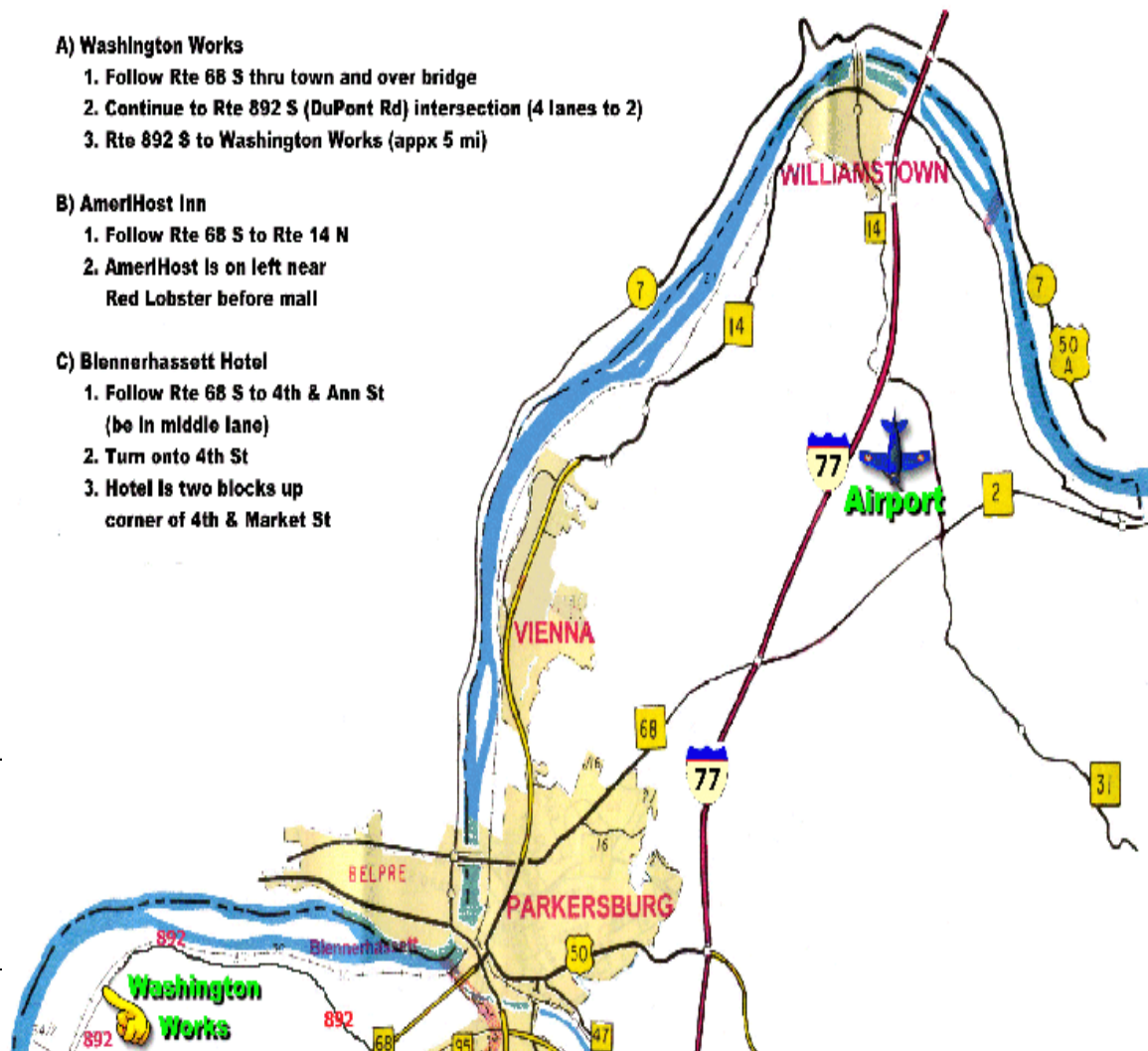
1. Follow Rte 68 S thru town and over bridge
2. Continue to Rte 892 S (DuPont Rd) intersection (4 lanes to 2)
3. Rte 892 S to Washington Works (appx 5 mi)

B) AmeriHost Inn

1. Follow Rte 68 S to Rte 14 N
2. AmeriHost is on left near Red Lobster before mall

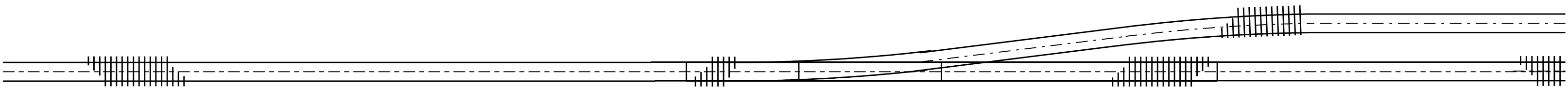
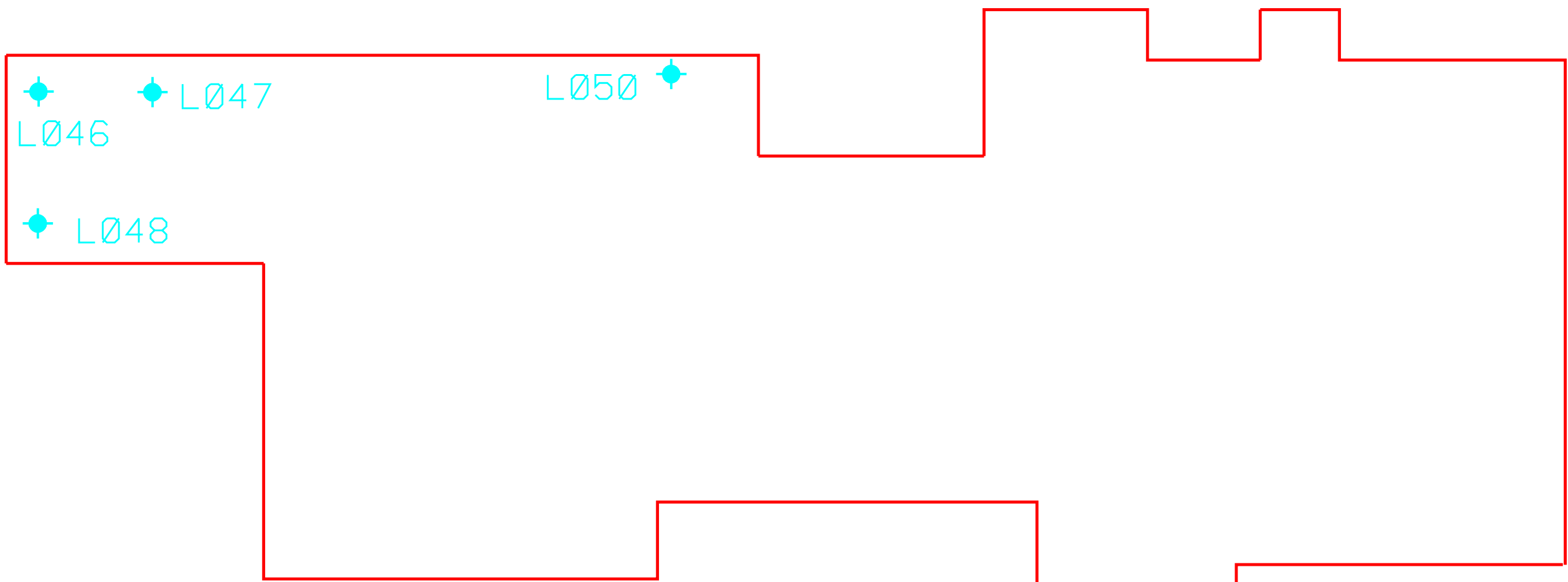
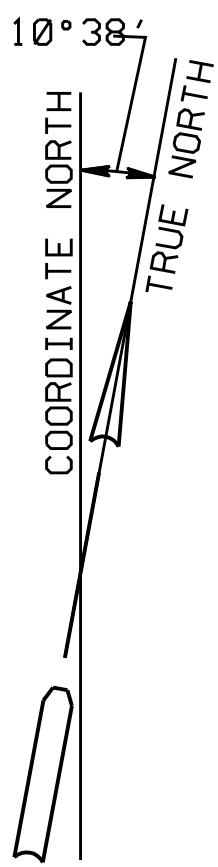
C) Blennerhassett Hotel

1. Follow Rte 68 S to 4th & Ann St
(be in middle lane)
2. Turn onto 4th St
3. Hotel is two blocks up corner of 4th & Market St



ATTACHMENT B – Plot Plan of Permitted Facility

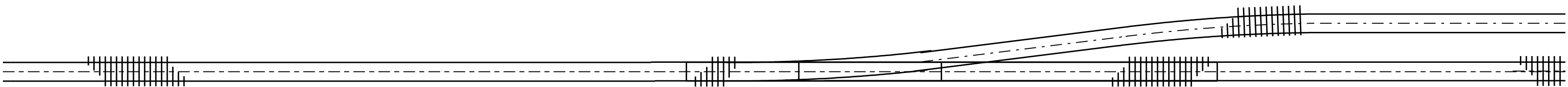
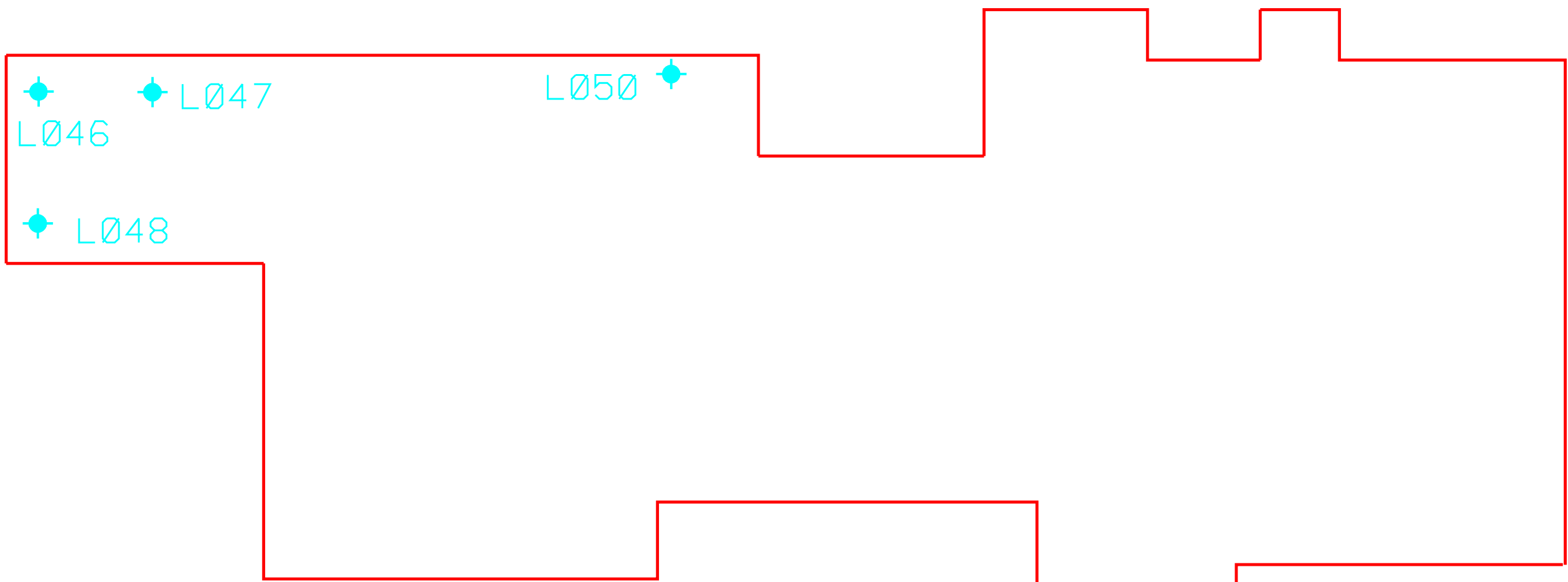
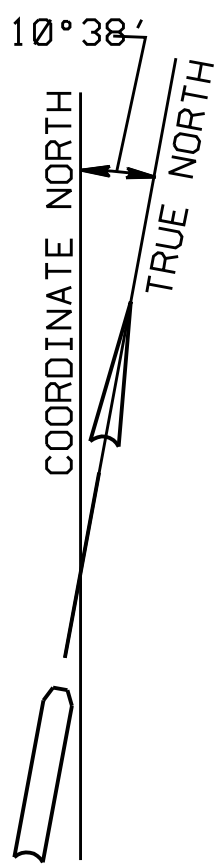
Plot Plan for the CLS facilities shows individual stack locations for the stacks that are affected by R13-2617 and R13-2654. The remaining stacks are lumped into a virtual stack for emissions purposes that is designated in the documents as emission point LB3E.



CENTRAL LABORATORY
R-13 PERMIT APPLICATION
PLOT PLAN

DAVE DRENNEN 2-10-06
SCALE: 1" = 60'

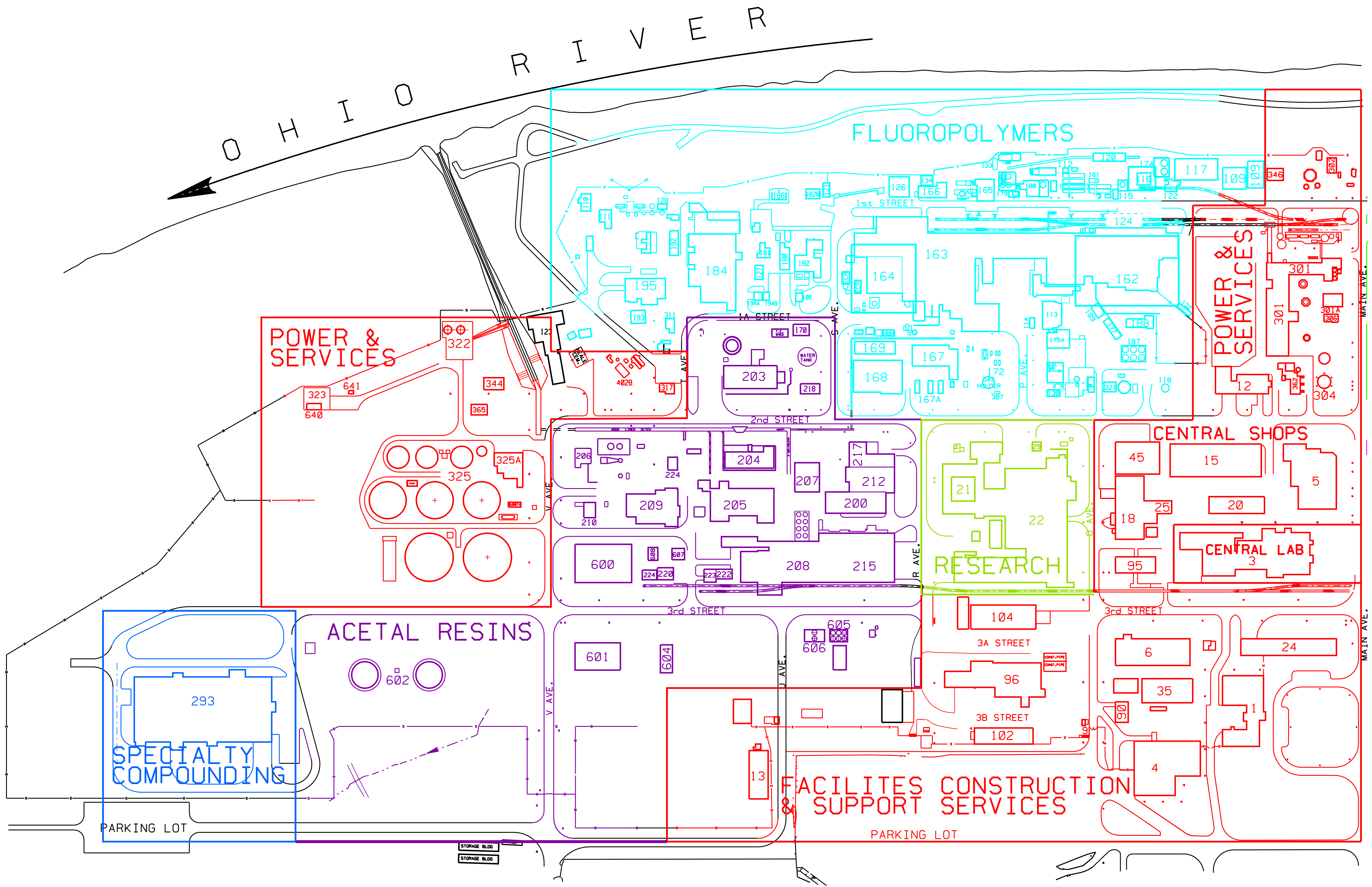
WWM666D



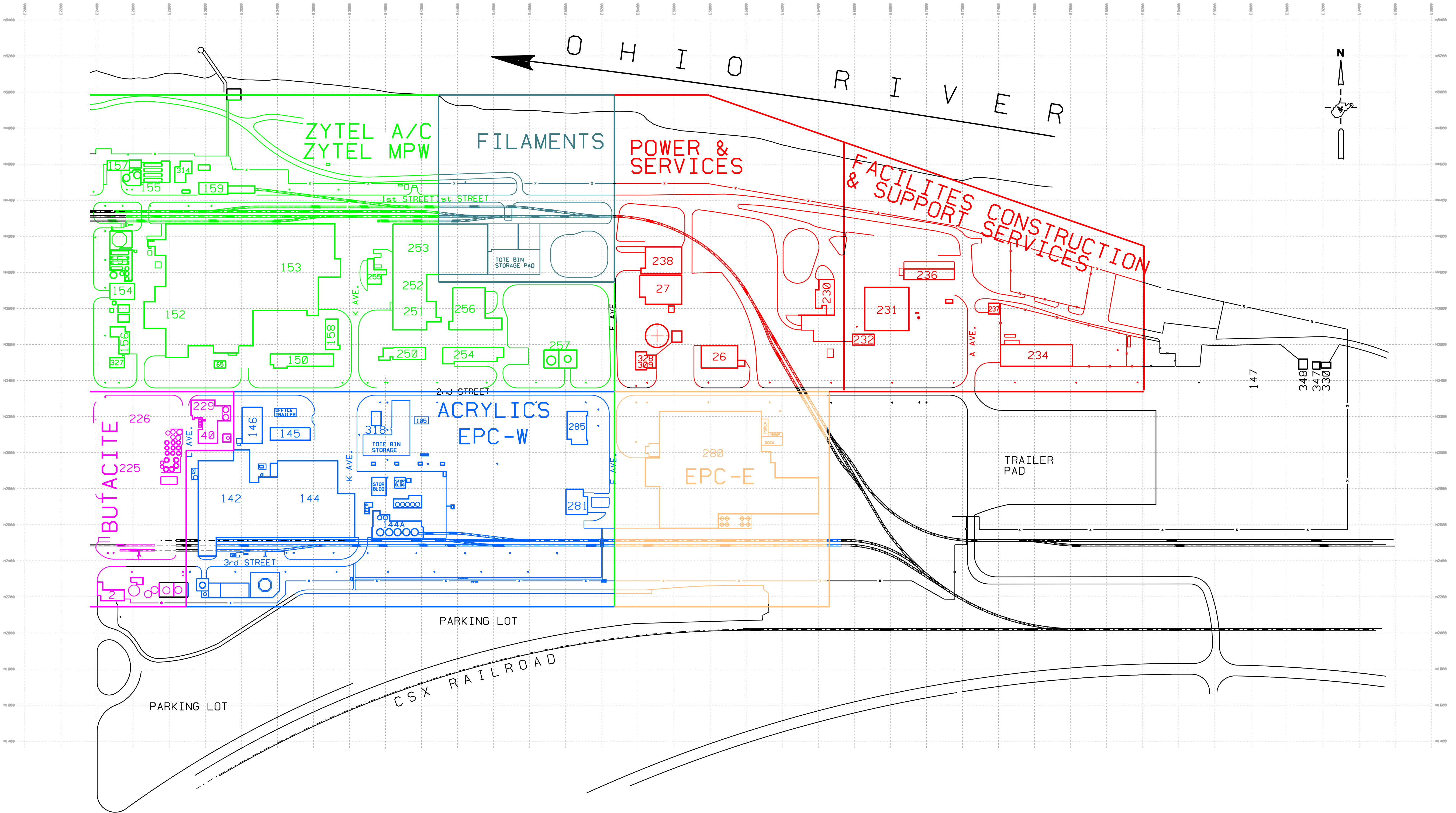
CENTRAL LABORATORY
R-13 PERMIT APPLICATION
PLOT PLAN

DAVE DRENNEN 2-10-06
SCALE: 1" = 60'

WWM666D



WASHINGTON WORKS TITLE 5 APPLICATION UPDATE		THIS DRAWING HAS BEEN FURNISHED BY E. I. DUPONT DE NEMOURS & CO. THE INFORMATION AND HIGH-NOX THEREON MAY NOT BE USED FOR THE DRAWING REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DUPONT. ALL REPRODUCTIONS IN WHOLE OR IN PART, INCLUDING VENDOR'S SHOP DRAWINGS, SHALL BEAR OR REFER TO THIS STAMP.	
C-1B		SCALE - 1" = 300'	DATE - 11-29-01
		DRAWN BY - JOE GASTON	11-29-01
		UPDATED BY - DAVE DRENNEN	12-5-01
		CHECKED BY -	
		APPROVED BY -	
ELEC. CODE CLASS	WJ. NO.	FAA NUMBER	PROJ. NO.
WASHINGTON WORKS WW M-809			AR



WASHINGTON WORKS
TITLE 5
APPLICATION UPDATE

C-2B

ELEC. CODE CLASS

WFJ NO.

FAX NUMBER

PROJ. NO.

WASHINGTON WORKS
WW M-809

OF
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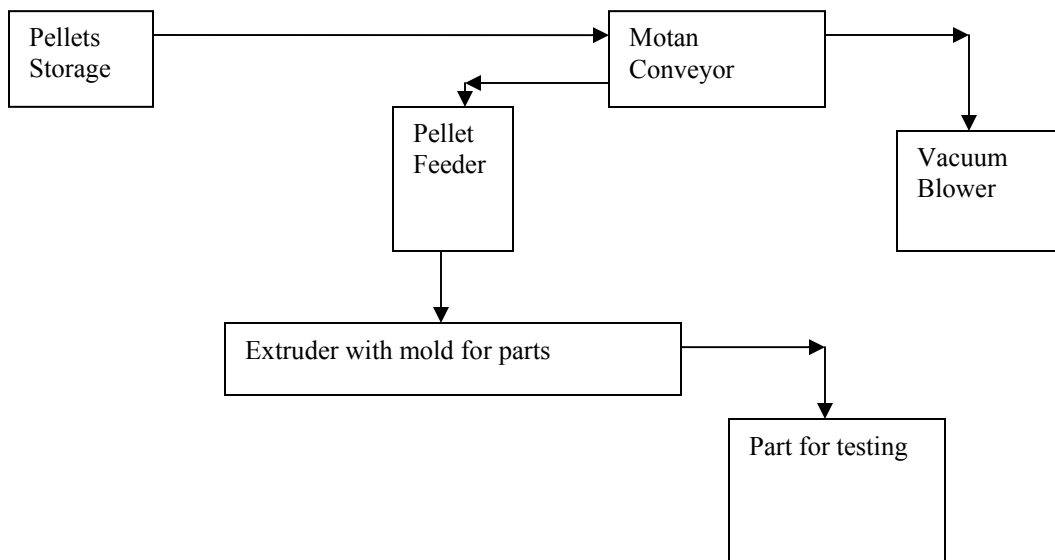
THIS DRAWING HAS BEEN FURNISHED BY E.I. DUPONT DE NEMOURS & CO. THE INFORMATION AND DATA THEREON MAY NOT BE USED NOR THE DRAWING REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DUPONT. ALL REPRODUCTIONS IN WHOLE OR IN PART, INCLUDING VENDOR'S SHOP DRAWINGS, SHALL BEAR OR REFER TO THIS STAMP.

SCALE: 1" = 300' DATE: 11-29-01
DRAWN BY: JOE GASTON
UPDATED BY: DAVE DRENNEN
CHECKED BY:
APPROVED BY:

ATTACHMENT C- PROCESS FLOW DIAGRAMS

All of the sources in the CLS facility – other than those specifically designated in R13-2654 and R13-2617 – are laboratory hoods and do not have process flows that may be described. These hoods, while they may be dedicated to a specific test, are mixed-use emission sources.

The emission sources associated with L046, L047, L048, L050 and L051 are associated with the production of test parts for quality control purposes through the use of small extrusion units. These units consist of a conveying system to move the raw plastic pellets to the extruder, an extruder feed system and a die head that molds parts for analytical testing.



ATTACHMENT D - Emission Units Table**(includes all emission units at the facility except those designated as insignificant activities in**

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/Modified	Design Capacity	Control Device ¹
L001	L001E	Laboratory Hood	1976	175 ACFM	
L001	LB3E	Laboratory Hood	1976	175 ACFM	
L002	L002E	Laboratory Hood	1976	500 ACFM	
L002	LB3E	Laboratory Hood	1976	500 ACFM	
L003	L003E	Laboratory Hood	1976	700 ACFM	
L003	LB3E	Laboratory Hood	1976	700 ACFM	
L004	L004E	Laboratory Hood	1976	700 ACFM	
L004	LB3E	Laboratory Hood	1976	700 ACFM	
L005	L005E	Laboratory Hood	1976	650 ACFM	
L005	LB3E	Laboratory Hood	1976	650 ACFM	
L006	L006E	Laboratory Hood	1976	500 ACFM	
L006	LB3E	Laboratory Hood	1976	500 ACFM	
L007	L007E	Laboratory Hood	1976	650 ACFM	
L007	LB3E	Laboratory Hood	1976	650 ACFM	
L008	L008E	Laboratory Hood	1976	450 ACFM	
L008	LB3E	Laboratory Hood	1976	450 ACFM	
L010	L010E	Laboratory Hood	1976	800 ACFM	
L010	LB3E	Laboratory Hood	1976	800 ACFM	
L011	L011E	Laboratory Hood	1976	1890 ACFM	
L011	LB3E	Laboratory Hood	1976	1890 ACFM	
L012	L012E	Laboratory Hood	1976	1890 ACFM	
L012	LB3E	Laboratory Hood	1976	1890 ACFM	
L013	L013E	Laboratory Hood	1976	1500 ACFM	
L013	LB3E	Laboratory Hood	1976	1500 ACFM	
L014	L014E	Laboratory Hood	1976	2400 ACFM	
L014	LB3E	Laboratory Hood	1976	1500 ACFM	
L015	L015E	Laboratory Hood	1976	650 ACFM	
L015	LB3E	Laboratory Hood	1976	650 ACFM	
L017	L017E	Laboratory Hood	1987	1700 ACFM	
L017	LB3E	Laboratory Hood	1987	1700 ACFM	
L018	L018E	Laboratory Hood	1987	2100 ACFM	
L018	LB3E	Laboratory Hood	1987	2100 ACFM	
L019	L019E	Laboratory Hood	1957	700 ACFM	
L019	LB3E	Laboratory Hood	1957	700 ACFM	
L020	L020E	Laboratory Hood	1957	1000 ACFM	
L020	LB3E	Laboratory Hood	1957	1000 ACFM	
L021	L021E	Laboratory Hood	1957	1000 ACFM	
L021	LB3E	Laboratory Hood	1957	1000 ACFM	
L022	L022E	Laboratory Hood	1957	800 ACFM	
L022	LB3E	Laboratory Hood	1957	800 ACFM	
L023	L023E	Laboratory Hood	1957	800 ACFM	
L023	LB3E	Laboratory Hood	1957	800 ACFM	
L024	L024E	Laboratory Hood	1957	1300 ACFM	
L024	LB3E	Laboratory Hood	1957	1300 ACFM	

ATTACHMENT D - Emission Units Table**(includes all emission units at the facility except those designated as insignificant activities in**

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/Modified	Design Capacity	Control Device ¹
L025	L025E	Laboratory Hood	1957	900 ACFM	
L025	L025E	Laboratory Hood	1957	900 ACFM	
L025	LB3E	Laboratory Hood	1957	900 ACFM	
L026	LB3E	Laboratory Hood	1957	400 ACFM	
L026	L026E	Laboratory Hood	1957	400 ACFM	
L027	L027E	Laboratory Hood	1957	800 ACFM	
L027	LB3E	Laboratory Hood	1957	800 ACFM	
L028	L028E	Laboratory Hood	1957	700 ACFM	
L028	LB3E	Laboratory Hood	1957	700 ACFM	
L029	L029E	Laboratory Hood	1957	800 ACFM	
L029	LB3E	Laboratory Hood	1957	800 ACFM	
L030	L030E	Laboratory Hood	1957	800 ACFM	
L030	LB3E	Laboratory Hood	1957	800 ACFM	
L031	L031E	Laboratory hood	1957	800 ACFM	
L031	LB3E	Laboratory hood	1957	800 ACFM	
L032	L032E	Laboratory Hood	1987	1800 ACFM	
L032	LB3E	Laboratory Hood	1987	1800 ACFM	
L033	L033E	Laboratory Hood	1976	1170 ACFM	
L033	LB3E	Laboratory Hood	1976	1170 ACFM	
L034	L034E	Laboratory Hood	1976	1240 ACFM	
L034	LB3e	Laboratory Hood	1976	1240 ACFM	
L035	L035E	Laboratory Hood	2000	500 ACFM	
L035	LB3E	Laboratory Hood	2000	500 ACFM	
L036	L036E	Laboratory Hood	1976	650 ACFM	
L036	LB3E	Laboratory Hood	1976	650 ACFM	
L037	L037E	Laboratory Hood	1976	150 ACFM	
L037	LB3E	Laboratory Hood	1976	150 ACFM	
L038	L038E	Laboratory Hood	1976	960 ACFM	
L038	LB3E	Laboratory Hood	1976	960 ACFM	
L039	L039E	Laboratory Hood	1976	800 ACFM	
L039	LB3E	Laboratory Hood	1976	800 ACFM	
L040	L040E	Laboratory Hood	1976	850 ACFM	
L040	LB3e	Laboratory Hood	1976	850 ACFM	
L046	L046E	Batenfield; Demag 5	1995	61360 samples/year	
L047	L047E	Demag #1, Demag #2	1995	61360 samples/year	
L048	L048E	Demag#3, Demag#4, Weatherometers	1995	61360 samples/year	
L049	L049 (inside vent)	Milling machine	1999	100 ACFM	
L050	L050E	Motan Conveyor System	1995	153320 samples/year	
L051	L051E	Vacuum Blower - Motan System	1976	55 gallons/year oil	

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

ATTACHMENT E – EQUIPMENT UNIT DESCRIPTION SHEETS [EUDS]

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L001	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L001E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">175 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L001	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">175 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L002	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L002E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L002	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L003</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood - Mixed Use</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed Use - Vents through L003E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">700 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L003</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood - Mixed Use</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">700 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L004	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L004E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">700 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L004	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">700 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L005	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L005E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L005	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L006	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L006E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L006	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L007	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L007E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L007	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L008	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L008E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">450 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L008	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">450 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L009	Emission unit name: Laboratory Hood - Mixed Use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Vents through L009E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">3500 samples/year</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.1	0.01
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.1	0.01

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Number of samples are recorded on a daily basis. Emission factors from research reports are used to determine the emissions from the unit as it produces the parts needed for testing of final product prior to release.

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L009	Emission unit name: Laboratory Hood - Mixed Use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">3500 samples/year</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Number of samples are recorded on a daily basis. Emission factors from research reports are used to determine the emissions from the unit as it produces the parts needed for testing of final product prior to release.

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L010	Emission unit name: Laboratory Hood - Mixed Use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L010E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L010</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood - Mixed Use</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">800 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L011	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L011E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1890 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.2	0.5
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Particulate Matter (PM ₁₀)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L011	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1890 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L012</div>	Emission unit name: <div style="text-align: center;">Laboraotry Hood - Mixed use</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed Use - Vents through L012E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1890 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L012	Emission unit name: Laboraotry Hood - Mixed use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1890 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)		

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L013	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L013E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L013</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hodd - Mixed use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1500 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L014	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L014E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L014</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hodd - Mixed use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1500 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L015</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood - Mixed use</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through L015E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">650 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L015	Emission unit name: Laboratory Hood - Mixed Use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L016</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood - Mixed use</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through L016E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1500 samples/year</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.1	0.01
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.1	0.01

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L016	Emission unit name: Laboratory Hood - Mixed use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1500 samples/year</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L017</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through L017E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">6/9/1905</div>	Installation date: <div style="text-align: center;">6/9/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1700 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L017</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">6/9/1905</div>	Installation date: <div style="text-align: center;">6/9/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1700 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L018	Emission unit name: Laboratory Hood - Mixed use	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L018E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/9/1905	Installation date: 6/9/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">2100 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L018	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/9/1905	Installation date: 6/9/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">2100 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L019	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L019E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">700 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L019	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">700 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L020	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L020E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1000 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L020	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1000 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L021	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L021E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1000 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L021	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1000 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L022	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L022E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L022</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">800 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L023</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through L023E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">800 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L023	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L024	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L024E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1300 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L024</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1300 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L025	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L025E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">900 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	491
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	491.00

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L025	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">900 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L026</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through L026E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">900 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L026	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">900 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L027	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L027E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L027	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L028	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L028E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">700 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L028	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">700 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L029	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): ILaboratory Hood - Mixed Use - Vents through L029E			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 800 ACFM			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L029</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/10/1905</div>	Installation date: <div style="text-align: center;">5/10/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">800 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L030	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L030E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L030	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L031	Emission unit name: Laboratory hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L031E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L031	Emission unit name: Laboratory hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/10/1905	Installation date: 5/10/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)		

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L032	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L032E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/9/1905	Installation date: 6/9/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.05
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.05

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L032</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">6/9/1905</div>	Installation date: <div style="text-align: center;">6/9/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">1800 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L033	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L033E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1170 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L033	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1170 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L034	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L034E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1240 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L034	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">1240 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L035	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L035E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/22/1905	Installation date: 6/22/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L035	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/22/1905	Installation date: 6/22/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">500 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L036	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L036E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L036	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">650 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L037	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through L037E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">150 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L037	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed Use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">150 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L038	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L038E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">960 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L038	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">960 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L039	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L039E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L039	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">800 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L040	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Laboratory Hood - Mixed use - Vents through L040E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1905	Installation date: 5/29/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">850 ACFM</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.2	0.50

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L040</div>	Emission unit name: <div style="text-align: center;">Laboratory Hood</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Laboratory Hood - Mixed use - Vents through LB3E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">850 ACFM</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.040
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

The facility uses inventory monitoring and consumption to generate the emissions from the laboratory hoods in the area. While the emission unit is listed as having an individual stack the applicable emission limit for other than particulate is based on the composite stack LN3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2654, 4.1.2)

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L046	Emission unit name: Battenfield, Demag #5	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Test Part Extruders - Vents through L046E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/17/1905	Installation date: 6/17/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">61360 samples/year</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.1
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.8	3.2
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.1	0.4
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.01	0.010
Formaldehyde	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.10
Total Particulate Matter (TSP)	0.8	3.20
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		

Number of samples are recorded on a daily basis. Emission factors from research reports are used to determine the emissions from the unit as it produces the parts needed for testing of final product prior to release.

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L047	Emission unit name: Demag#1, Demag#2	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Test Part Extruders - Vents through L047E</div>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 6/17/1905	Installation date: 6/17/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">61360 samples/year</div>			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.1
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.8	3.2
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.1	0.4
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Formaldehyde	0.01	0.010
Methanol	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.10
Total Particulate Matter (TSP)	0.8	3.20
Volatile Organic Compounds (VOC)	0.1	0.40
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		

Number of samples are recorded on a daily basis. Emission factors from research reports are used to determine the emissions from the unit as it produces the parts needed for testing of final product prior to release.

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L048</div>	Emission unit name: <div style="text-align: center;">Demag#3, Demag#4, Weatherometers</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Demag#, Demag#4, Weatherometers - Vents through L048E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">6/17/1905</div>	Installation date: <div style="text-align: center;">6/17/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">61360 samples/year</div>			
Maximum Hourly Throughput: <div style="text-align: center;">61360 lbs/hr</div>	Maximum Annual Throughput: <div style="text-align: center;">61360 samples/year</div>	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.1
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.8	3.2
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.1	0.4
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Formaldehyde	0.01	0.010
Methanol	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.10
Total Particulate Matter (TSP)	0.8	3.20
Volatile Organic Compounds (VOC)	0.1	0.40
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		

Number of samples are recorded on a daily basis. Emission factors from research reports are used to determine the emissions from the unit as it produces the parts needed for testing of final product prior to release.

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: L050	Emission unit name: Motan Conveyor System	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center; padding: 10px;">Motan Conveyor System - Vents through L050E</div>			
Manufacturer: Motan	Model number: N/A	Serial number: N/A	
Construction date: 6/17/1905	Installation date: 6/17/1905	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center; padding: 10px;">153320 samples/year</div>			
Maximum Hourly Throughput: 153320 lbs/hr	Maximum Annual Throughput: 153320 samples/year	Maximum Operating Schedule:	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.1
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.8	3.2
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.1	0.4
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Formaldehyde	0.01	0.010
Mercury Compounds	0	
Methanol	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.1	0.10
Total Particulate Matter (TSP)	0.8	3.20
Volatile Organic Compounds (VOC)	0.1	0.40
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		

Number of samples are recorded on a daily basis. Emission factors from research reports are used to determine the emissions from the unit as it produces the parts needed for testing of final product prior to release.

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: <div style="text-align: center;">L051</div>	Emission unit name: <div style="text-align: center;">Vaccum Unit - Motan Blower</div>	List any control devices associated with this emission unit: 	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): <div style="text-align: center;">Motan Blower - Vents through L051E</div>			
Manufacturer: <div style="text-align: center;">N/A</div>	Model number: <div style="text-align: center;">N/A</div>	Serial number: <div style="text-align: center;">N/A</div>	
Construction date: <div style="text-align: center;">5/29/1905</div>	Installation date: <div style="text-align: center;">5/29/1905</div>	Modification date(s): <div style="text-align: center;">N/A</div>	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): <div style="text-align: center;">55 gallons/year oil</div>			
Maximum Hourly Throughput: 	Maximum Annual Throughput: 	Maximum Operating Schedule: 	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Direct Fired <input type="checkbox"/> Indirect Fired	
Maximum design heat input and/or maximum horsepower rating: 		Type and Btu/hr rating of burners: <div style="text-align: center;">N/A</div>	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. <div style="text-align: center;">N/A</div>			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

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Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)	0.1	0.19
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Total Particulate Matter (TSP)	0.1	0.19

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Inventory of oil and amount of oil added to blower is tracked to determine if there is a problem with the oil loss rate from the blower

Applicable Requirements

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

See Attached List for all Applicable Requirements.

____ Permit Shield

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

See WV Regulation 13 construction permit # R13-2654

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

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

Attachment F is not required for the Title V renewal Application for CLS (Segment 13 of 14) of the DuPont Washington Works

ATTACHMENT G- Control Devices

Attachment G is not required for this application as the area has no control devices which are not inherent to the process.

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

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

CAM APPLICABILITY DETERMINATION

- 1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit) considered separately with respect to **EACH** regulated air pollutant that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (If No, then the remainder of this form need not be completed):
- ☐ YES ☒ NO
- a. The PSEU is located at a major source that is required to obtain a Title V permit;
- b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is **NOT** exempt;
- LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:**
- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
 - Stratospheric Ozone Protection Requirements.
 - Acid Rain Program Requirements.
 - Emission Limitations or Standards for which a W VDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
 - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
- d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
- e. The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

- 2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:
- ☐ **RENEWAL APPLICATION.** **ALL** PSEUs for which a CAM plan has **NOT** yet been approved need to be addressed in this CAM plan submittal.
- ☐ **INITIAL APPLICATION** (submitted after 4/20/98). **ONLY** large PSEUs (i.e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.
- ☐ **SIGNIFICANT MODIFICATION TO LARGE PSEUs.** **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this CAM plan submittal. For large PSEUs with an approved CAM plan, **Only** address the appropriate monitoring requirements affected by the significant modification.

3) ^a BACKGROUND DATA AND INFORMATION

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

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

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

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

^c Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA

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

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

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

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

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

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

RATIONALE AND JUSTIFICATION

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

6a) PSEU Designation:

6b) Regulated Air Pollutant:

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

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

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

RATIONALE AND JUSTIFICATION:

ATTACHMENT I – SUPPLIMENTAL INFORMATION

APPLICABLE REQUIREMENTS SUMMARY:

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR6	Open burning prohibited.
45CSR	7 Particulate	matter and opacity limits for manufacturing sources.
45C	SR11 St	andby plans for emergency episodes.
45C	SR13 Prec	onstruction permits
WV	Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
45C	SR30	rating permit requirement.
40	C.F.R. Part 61 Asbe	stos inspection and removal
State Only:	4	o objectionable odors.
45C	5CSR4 N	ontrol of VOC Emissions
	SR§21-40 C	Best Available Technology (BAT) for HAPs
	45CSR27	

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR15, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2654 0	1/30/2007	NA
R13-2617 0	9/29/2006	NA

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

45CSR7 Requirements45CSR§§7-3.1 and 3.2

Emission units L001, L002, L003, L004, L005, L006, L007, L008, L009, L010, L011, L012, L013, L014, L015, L016, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, L040, L046, L047, L048, L050, and L051 are subject to the opacity limits of 45CSR§§7-3.1 and 3.2. In order to

demonstrate compliance with these limits, visible emission observations are required to be conducted monthly from L001, L002, L003, L004, L005, L006, L007, L008, L009, L010, L011, L012, L013, L014, L015, L016, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, L040, L046, L047, L048, and L051 using a modified method based on 40 C.F.R. 60, Appendix A, Method 22. that requires a 45 CSR Method 7A reading if any discernible particulate emissions are seen. Since the emissions from L050 are discharged from a muffler directed downward approximately one foot above ground, the permittee shall demonstrate compliance with the opacity limits of 45CSR§§7-3.1 and 3.2 by conducting monthly inspections to determine if visible emissions are being discharged from the muffler or if excess particulate matter is being discharged to the surrounding ground.

45CSR§7-4.1

Emission points L001, L002, L003, L004, L005, L006, L007, L008, L009, L010, L011, L012, L013, L014, L015, L016, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, L040, L046, L047, L048, L050, and L051 are subject to 45CSR§7-4.1. In order to demonstrate compliance with the hourly particulate emission limits for L046, L047, L048, and L050, the permittee is required to maintain monthly records of the number of samples processed and the hours of operation for each emission unit and use these records to calculate and maintain records of the average number of samples processed per hour and the average hourly emission rate for each emission point.

Since the allowable 45CSR§7-4.1 emission limits for Lab Hoods L009 and L016, based on their maximum hourly sample throughputs, are 10.34×10^{-4} and 7.39×10^{-4} lbs/hr, emissions from these sources were considered insignificant and monitoring is not considered necessary to demonstrate compliance.

For the purpose of determining a 45CSR§7-4.1 allowable emission limit from Lab Hoods L001, L002, L003, L004, L005, L006, L007, L008, L010, L011, L012, L013, L014, L015, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, and L040, these hoods were treated as a “virtual stack” and the allowable particulate emission limit was calculated based on the combined maximum hourly throughput. Since the maximum allowable 45CSR§7-4.1 emission limit of 0.112 lb/hr is much greater than maximum hourly uncontrolled emission rate of 0.016 lb/hr, these emission units were also considered insignificant and monitoring is not recommended to be added to demonstrate compliance.

Although no monitoring was added to demonstrate compliance with the emission limits of 45CSR§7-4.1 for the lab hoods, 45SR§7-8.1 provides the Director with the option of requiring performance testing to demonstrate compliance with the 45CSR§7-4.1 hourly emission limits.

L051 is a vacuum unit that uses oil as part of the system for production of a vacuum. Particulate emissions from this unit are in the form of an oil mist. Based on the maximum oil circulation rate of 0.25 gpm, the maximum allowable 45CSR§7-4.1 emission limit is 0.13 lb/hr. Based on the maximum oil usage rate of 55 gallons per year, the maximum proposed emission rate from L051 is 0.045 lb/hr. Since the maximum hourly uncontrolled emission rate of particulate matter for this source is less than 0.1 lb/hr and is much less than the 45CSR§7-4.1 hourly emission limit, emissions from L051 were considered insignificant and monitoring was not added to demonstrate compliance. Although no monitoring was added, 45CSR§7-8.1 provides the Director with the option of requiring performance testing to demonstrate compliance with the 45CSR§7-4.1 hourly emission limits.

4.1. Limitations and Standards

- 4.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity. These provisions shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. (L001, L002, L003, L004, L005, L006, L007, L008, L009, L010, L011, L012, L013, L014, L015, L016, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, L040, L046, L047, L048, L050, and L051) **[45CSR§§7-3.1. and 3.2.]**
- 4.1.2. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7.

Emission Points	45CSR7 Hourly Particulate Emission Limit pph
L001, L002, L003, L004, L005, L006, L007, L008, L010, L011, L012, L013, L014, L015, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, L040	0.112
L009	$10.34 * 10^{-4}$
L016	$7.39 * 10^{-4}$
L046 0.	08
L047 0.	17
L048 0.	17
L050 0.	42
L051 0.	13

(L001, L002, L003, L004, L005, L006, L007, L008, L009, L010, L011, L012, L013, L014, L015, L016, L017, L018, L019, L020, L021, L022, L023, L024, L025, L026, L027, L028, L029, L030, L031, L032, L033, L034, L035, L036, L037, L038, L039, L040, L046, L047, L048, L050, and L051)
[45CSR§7-4.1.]

Emission unit L049 is the fugitive dust collection unit for a milling machine that is used to do a notched Izod test for plastic properties. It has a dust collection system that vents into the building and does not have an exterior emission point. This emission unit is subject to the fugitive emission requirements of 45CSR§7-5.1.

45CSR27 Requirements

The permittee is subject to the State-Enforceable only conditions of Consent Order CO-R27-92-19. DuPont is currently working with the DAQ to incorporate these conditions into one or more permits issued under 45CSR13 and have Consent Order CO-R27-92-19 dissolved. Since the conditions of CO-R27-92-19 not only include Central Laboratory Services (Part 13 of 14), but also various other business units at the facility, they will become part of a site-wide Title V permit and will not be included in any of the individual Business Unit's Title V permits.

45CSR 21-40 Requirements

The Central Laboratory Services is part of the facility that was subject to 45 CSR 21-40. There are no current sources in the facility that are required to be controlled under the requirements of 45CSR 21-40. the generally applicable requirements to the area have been included as part of the facility wide requirements listed in the application form.

45CSR27 Requirements

5.1.1. Emissions released from the extrusion units (Sources L046, L047, L048, and L050) shall be limited to the pollutants and associated total combined emission rates as set forth in Table 4.1.1. of permit R13-2654.

Table 4.1.1. of R13-2654

Emission Point	Source(s) Po	Pollutant	Emission Rates	
			Hourly (pph)	Annual (tpy)
L046E L0	46	CO Particulate VOC Formaldehyde Methanol	0.1	0.1
L047E L0	47		0.8	3.2
L048E L0	48		0.1	0.4
L050E L0	50		0.01 0.01	0.01 0.01

[45CSR13, R13-2654, 4.1.1.]

5.1.2. Laboratory hoods (L001 - L040), identified collectively as Source LB3, shall not exceed a total maximum combined annual emission rate of 0.04 tons per year of methylene chloride, based on a 12-month rolling total. **[45CSR13, R13-2654, 4.1.2.]**

5.1.3. Emission sources and the associated emission points affected by Section 5.0 of this permit and subject to 45CSR21, shall be subject to the standards and requirements set forth in permit R13-2617, and any amendments thereto. **[45CSR13, R13-2654, 4.1.3.]**

- 5.1.4. Emission sources and the associated emission points affected by Section 5.0 of this permit and subject to 45CSR27, shall be subject to the standards and requirements set forth in permit R13-2617, and any amendments thereto. **[45CSR13, R13-2654, 4.1.4.]**

5.2. Limitations and Standards

- 5.4.1. For the purpose of determining compliance with the opacity limits of 45CSR§§7-3.1 and 3.2 (condition 4.1.1. of this permit), the permittee shall conduct opacity monitoring for those emissions points identified in Table 4.1.1. of permit R13-2617 (condition 5.1.1 of this permit). Monitoring shall be conducted at least once per month with a maximum of forty-five (45) days between consecutive readings. These checks shall be conducted by personnel trained in the practices and limitations of 40CFR60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. If visible emissions are identified during the visible emission check, or at any other time regardless of operations, the permittee shall conduct an opacity reading using the procedures and requirements of 45CSR7A within three (3) days of the first signs of visible emissions. A 45CSR7A evaluation shall not be required if the visible emission condition is corrected within seventy-two (72) hours after the visible emission and the sources are operating at normal conditions. **[45CSR13, R13-2654, 4.2.1.]**

5.3. Testing Requirements

[Reserved]

5.4. Recordkeeping Requirements

- 5.4.1. For the purpose of determining compliance with the emission limits set forth in Section 5.1.1. of this permit, the permittee shall maintain monthly records of the numbers and types of samples processed on the equipment, as well as the hours of operation. Such process records shall be used to calculate actual facility emissions on a monthly and 12-month rolling total basis. **[45CSR13, R13-2654, 4.4.4.]**
- 5.4.2. For the purpose of demonstrating compliance with the emission limit set forth in Section 5.1.2. of this permit, the permittee shall maintain purchase, transfer, and delivery records documenting the consumption of methylene chloride. Records shall be maintained for each of the affected hoods that introduce or utilize methylene chloride during the course of the operating year. **[45CSR13, R13-2654, 4.4.5.]**

Reg 30 Emission Limits Table

Emission Point ID No.	Emission Source Name and ID No.	Control Device Name and ID No.	Pollutant	Emission Limit	
				PPH	TPY
L001E	L001		Total Particulate Matter (TSP)	0.2	0.5
L004E	L004		Total Particulate Matter (TSP)	0.2	0.5
L005E	L005		Total Particulate Matter (TSP)	0.2	0.5
L006E	L006		Total Particulate Matter (TSP)	0.2	0.5
L008E	L008		Total Particulate Matter (TSP)	0.2	0.5
L002E	L002		Total Particulate Matter (TSP)	0.2	0.5
L007E	L007		Total Particulate Matter (TSP)	0.2	0.5
L009E	L009		Total Particulate Matter (TSP)	0.1	0.01
LB3E	L009		Methylene Chloride	0.01	0.04
L010E	L010		Total Particulate Matter (TSP)	0.2	0.5
L011E	L011		Particulate Matter (PM10)	0.2	0.5
L012E	L012		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L011		Methylene Chloride	0.01	0.04
LB3E	L001		Methylene Chloride	0.01	0.04
LB3E	L002		Methylene Chloride	0.01	0.04
LB3E	L004		Methylene Chloride	0.01	0.04
LB3E	L005		Methylene Chloride	0.01	0.04
LB3E	L006		Methylene Chloride	0.01	0.04
LB3E	L007		Methylene Chloride	0.01	0.04
LB3E	L008		Methylene Chloride	0.01	0.04
L003E	L003		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L003		Methylene Chloride	0.01	0.04
L013E	L013		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L013		Methylene Chloride	0.01	0.04
LB3E	L014		Methylene Chloride	0.01	0.04
LB3E	L014		Total Particulate Matter (TSP)	0.2	0.5
L014E	L014		Total Particulate Matter (TSP)	0.2	0.5
L015E	L015		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L015		Methylene Chloride	0.01	0.04
L016E	L016		Total Particulate Matter (TSP)	0.1	0.01
LB3E	L016		Methylene Chloride	0.01	0.04
LB3E	L017		Methylene Chloride	0.01	0.04
L017E	L017		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L018		Methylene Chloride	0.01	0.04
L019E	L019		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L019		Methylene Chloride	0.01	0.04
L020E	L020		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L020		Methylene Chloride	0.01	0.04
L021E	L021		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L021		Methylene Chloride	0.01	0.04
L022E	L022		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L022		Methylene Chloride	0.01	0.04
L023E	L023		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L023		Methylene Chloride	0.01	0.04
L024E	L024		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L024		Methylene Chloride	0.01	0.04
L025E	L025		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L025		Methylene Chloride	0.01	0.04
L026E	L026		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L026		Methylene Chloride	0.01	0.04
L027E	L027		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L027		Methylene Chloride	0.01	0.04
L028E	L028		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L028		Methylene Chloride	0.01	0.04
L029E	L029		Total Particulate Matter (TSP)	0.2	0.5

LB3E	L029		Methylene Chloride	0.01	0.04
L030E	L030		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L030		Methylene Chloride	0.01	0.04
L031E	L031		Total Particulate Matter (TSP)	0.2	0.5
L032E	L032		Total Particulate Matter (TSP)	0.2	0.05
LB3E	L032		Methylene Chloride	0.01	0.04
LB3E	L033		Methylene Chloride	0.01	0.04
L034E	L034		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L034		Methylene Chloride	0.01	0.04
L035E	L035		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L035		Methylene Chloride	0.01	0.04
L036E	L036		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L036		Methylene Chloride	0.01	0.04
L037E	L037		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L037		Methylene Chloride	0.01	0.04
L038E	L038		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L038		Methylene Chloride	0.01	0.04
L039E	L039		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L039		Methylene Chloride	0.01	0.04
L040E	L040		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L040		Methylene Chloride	0.01	0.04
L046E	L046		Carbon Monoxide (CO)	0.1	0.1
L046E	L046		Total Particulate Matter (TSP)	0.8	3.2
L046E	L046		Volatile Organic Compounds (VOC)	0.1	0.4
L046E	L046		Methanol	0.01	0.01
L046E	L046		Formaldehyde	0.01	0.01
L047E	L047		Carbon Monoxide (CO)	0.1	0.1
L047E	L047		Total Particulate Matter (TSP)	0.8	3.2
L047E	L047		Volatile Organic Compounds (VOC)	0.1	0.4
L047E	L047		Formaldehyde	0.01	0.01
L047E	L047		Methanol	0.01	0.01
L018E	L018		Total Particulate Matter (TSP)	0.2	0.5
LB3E	L010		Methylene Chloride	0.01	0.04
L033E	L033		Total Particulate Matter (TSP)	0.2	0.5
L050E	L050		Total Particulate Matter (TSP)	0.1	0.14
L048E	L048		Carbon Monoxide (CO)	0.1	0.1
L048E	L048		Total Particulate Matter (TSP)	0.8	3.2
L048E	L048		Volatile Organic Compounds (VOC)	0.1	0.4
L048E	L048		Formaldehyde	0.01	0.01
L048E	L048		Methanol	0.01	0.01
L051E	L051		Total Particulate Matter (TSP)	0.1	0.19
LB3E	L031		Methylene Chloride	0.01	0.04
LB3E	L012		Methylene Chloride	0.01	0.04

Emissions Summary for Central Laboratory Services

Plant-wide Emissions Summary [Tons per Year]		
Criteria Pollutants	Potential Emissions	2012 Actual Emissions
Carbon Monoxide (CO)	0.0645	0.0
Nitrogen Oxides (NO _x) 0	.0096	0.0
Lead (Pb)	0.0	0.0
Particulate Matter (PM _{2.5}) 0.	0	0.0
Particulate Matter (PM ₁₀) 0.	98	0.06
Total Particulate Matter (TSP)	0.98	0.06
Sulfur Dioxide (SO ₂) 0.	0	0.0
Volatile Organic Compounds (VOC)	0.541	0.07
<i>PM₁₀ is a component of TSP.</i>		
Hazardous Air Pollutants	Potential Emissions	2012 Actual Emissions
Formaldehyde 0	.00165	0.0002
HCl 0.	05	0.03
Methanol 0	.0184	0.006
Methylene Chloride	0.04	0.002
Toluene 0	.0414	0.012
Phenol 0.	00935	0.003
n-Hexane 0.	00035	0.0
m-Cresol 0.	00005	0.0
Tetrachloroethylene 0	.0002	0.0
Xylene 0.	00005	0.0
Regulated Pollutants other than Criteria and HAP	Potential Emissions	2012 Actual Emissions

Some of the above HAPs may be counted as PM or VOCs.

For HAPs that are also considered PM or VOCs emissions should include both the HAPs section and the Criteria Pollutant section.