



Modi, Beena J <beena.j.modi@wv.gov>

Re: R30-10700208-2024 (13 of 14) Renewal

1 message

Keatley, Robert, Celanese <Robert.Keatley@celanese.com>

Wed, Aug 14, 2024 at 6:11 PM

To: Beena J Modi <beena.j.modi@wv.gov>, "Egnor, Michael" <michael.egnor@wv.gov>

Beena/Mike,

With the issuance of this permit recognizing our minor Source HAP status are you ready to issue the Title V renewal? Thanks for all your patience.

Rob

Robert Keatley
EH&S Senior Engineer
Washington Works



- [8480 DuPont Rd. B-24](#)

[Washington, WV 26181](#)

Phone: [681.297.0554](#) Cell: [304.389.3518](#)

Robert.Keatley@Celanese.com

www.celanese.com

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From: Mink, Stephanie R <stephanie.r.mink@wv.gov>**Sent:** Wednesday, August 14, 2024 1:36:15 PM**To:** King, Nathan, Celanese <Nathan.King@celanese.com>; Keatley, Robert, Celanese <robert.keatley@celanese.com>**Cc:** McKeone, Beverly D <beverly.d.mckeone@wv.gov>; Joseph R Kessler <joseph.r.kessler@wv.gov>; Jonathan W Carney <jonathan.w.carney@wv.gov>**Subject:** [EXT]West Virginia Air Quality Permit Issued

CAUTION: This email originated from outside Celanese. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Permit Issued**Celanese Polymer Products, LLC; Washington Works****Permit Application No. R13-3574A****Plant ID No. 107-00208**

Mr. King:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General

Permit Registrations, and Procedures for Evaluation" **has been approved.**

The attached R13-1533P is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

As specified in Section 2 of the permit, approval of this permit does not relieve the permittee of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

A copy of the signed permit can be sent via USPS upon request, by contacting Stephanie Mink at (304) 926-0499 ext. 41281.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions, please contact Jonathan Carney at 304-926-0499 ext. 41247.

--

Stephanie Mink

Environmental Resources Associate

West Virginia Department of Environmental Protection

Division of Air Quality, Title V & NSR Permitting

601 57th Street SE

Charleston, WV 25304

Phone: 304-926-0499 x41281

 **107-00208_PERM_13-3574A.pdf**
9102K



Modi, Beena J <beena.j.modi@wv.gov>

RE: Re: FW: Re: R30-10700208-2024 (13 of 14)

1 message

Keatley, Robert, Celanese <Robert.Keatley@celanese.com>

Fri, May 31, 2024 :

To: "Egnor, Michael" <michael.egnor@wv.gov>

Cc: Beena J Modi <beena.j.modi@wv.gov>, Carrie McCumbers <carrie.mccumbers@wv.gov>, Laura M Crowder <Laura.M.Crowder@wv.gov>

Awesome. Thanks guys.

From: Egnor, Michael <michael.egnor@wv.gov>

Sent: Friday, May 31, 2024 9:49 AM

To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>

Cc: Beena J Modi <beena.j.modi@wv.gov>; Carrie McCumbers <carrie.mccumbers@wv.gov>; Laura M Crowder <Laura.M.Crowder@wv.gov>

Subject: [EXT]Re: FW: Re: R30-10700208-2024 (13 of 14)

CAUTION: This email originated from outside Celanese. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Rob,

I talked to Carrie and we are both fine with your proposed update to the R13-3574 Permit and Title V application. Carrie said she will hold off on the Title V renewal if you can get us the Class week.

Thanks and have a great weekend,

Mike

On Fri, May 31, 2024 at 9:21 AM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Mike,

Thanks. I think I can work that out, but I will double-check with Corporate. I will Class I Adm Update the Site-Wide (R27/R21) R13-3574 Permit and include an update corresponding Title V Permits with that application, if that sounds good to you? Thanks

Rob

Robert Keatley

EH&S Senior Consultant

Washington Works



8480 DuPont Rd. B-24

Washington, WV 26181

Phone: 681.297.0554 Cell: 304.389.3518

Robert.Keatley@Celanese.com

www.celanese.com

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From: Egnor, Michael <michael.egnor@wv.gov>
Sent: Friday, May 31, 2024 9:03 AM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Cc: Beena J Modi <beena.j.modi@wv.gov>; Carrie McCumbers <carrie.mccumbers@wv.gov>; Laura M Crowder <Laura.M.Crowder@wv.gov>
Subject: [EXT]Re: FW: Re: R30-10700208-2024 (13 of 14)

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Rob,

You had mentioned Corporate was in a hurry to get this resolved. As you know, a Class I doesn't require any notice and we can get it issued quickly.

Thanks,

Mike

On Thu, May 30, 2024 at 7:51 PM Egnor, Michael <michael.egnor@wv.gov> wrote:

Hey Rob,

Hope you are well. Haven't seen you forever.

If you do a Class I administrative update to one of your NSR permits asking for a facility wide limit of 9 TPY of any single HAP and 24 TPY of total HAPs (including fugitives) on a yearly r month average with monthly recordkeeping I would consider the facility a minor source of HAPs upon issuance and I would ask permitting to update the Title V fact sheet to reflect it.

Thanks,

Mike

On Thu, May 30, 2024 at 1:59 PM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Hey Mike,

I need to get this resolved for Corporate. We are a minor source of HAPs. Celanese has practically enforceable Rule 13/Title V limits. We followed the procedural requirements of MACT Subpart A General Requirements of 40 CFR 63 (Rule 34) for minor source status. I am not sure what else you may need to do? Thanks

Rob

Robert Keatley, PE

EH&S Senior Consultant

Washington Works



8480 DuPont Rd. B-24

Washington, WV 26181

Phone: 681.297.0554 Cell: 304.389.3518

Robert.Keatley@Celanese.com

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From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Thursday, May 30, 2024 1:24 PM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]Re: R30-10700208-2024 (13 of 14)

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Hi Robert,

I talked to Carrie about your comments. She discussed with Mike Egnor and Laura Crowder regarding HAP.

We will make the changes requested by Celanese on the permit(regarding address change) , but not on the fact sheet (about HAP) . If you don't agree, you can talk to Mike Egnor.

Thanks,

Beena

On Fri, May 24, 2024 at 8:55 AM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Beena,

We really don't have any comments on the draft Title V Permit. Wanted to just update the phone number and LLC. Thanks Rob

Facility Location:	Washington, Wood County, West Virginia
Facility Mailing Address:	P. O. Box 2600, Washington, WV 26181-2600
Telephone Number:	(304) 863- 22364244
Type of Business Entity:	<u>Limited Liability Corporation (LLC)</u>
Facility Description:	Consolidation of laboratory services

Robert Keatley, PE
EH&S Senior Consultant
Washington Works



8480 DuPont Rd. B-24
Washington, WV 26181
Phone: 681.297.0554 Cell: 304.389.3518
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From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Thursday, May 23, 2024 10:42 AM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]Re: R30-10700208-2024 (13 of 14)

CAUTION: This email originated from outside Celanese. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Robert,

Could you please send your comments by this week?

Thanks,

Beena

On Mon, May 20, 2024 at 10:35 AM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Thanks will do.

From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Wednesday, May 15, 2024 5:02 PM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]R30-10700208-2024 (13 of 14)

CAUTION: This email originated from outside Celanese. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please review the attached factsheet & permit.

Let me know your comments by 5/21/2024.

Thanks,

Beena



Modi, Beena J <beena.j.modi@wv.gov>

Re: Proposed Title V Permit for Chemours Washington Works R30-10700182-2024 (12 of 14)

1 message

Modi, Beena J <beena.j.modi@wv.gov>
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Tue, May 28, 2024 at 8:29 AM

On Tue, May 28, 2024 at 7:43 AM Modi, Beena J <beena.j.modi@wv.gov> wrote:

The final permit and factsheet are on Q drive. I noticed that factsheet doesn't have last few pages.

On Thu, May 23, 2024 at 11:44 AM Modi, Beena J <beena.j.modi@wv.gov> wrote:

Ok, I will put the final permit on Q drive by Monday night.

On Thu, May 23, 2024 at 11:41 AM McCumbers, Carrie <carrie.mccumbers@wv.gov> wrote:

Let's wait until Tuesday, May 28th to get this one signed. It had public comments and we need to make sure we send out everything on the date it was signed. Stephanie Mink is off today and tomorrow.

----- Forwarded message -----

From: **Supplee, Gwendolyn** <Supplee.Gwendolyn@epa.gov>

Date: Thu, May 23, 2024 at 11:33 AM

Subject: RE: Proposed Title V Permit for Chemours Washington Works R30-10700182-2024 (12 of 14)

To: McCumbers, Carrie <carrie.mccumbers@wv.gov>, Whapham, Joseph <Whapham.Joseph@epa.gov>

Cc: Modi, Beena J <beena.j.modi@wv.gov>, Laura M Crowder <laura.m.crowder@wv.gov>

Hi Carrie –

EPA Region 3 has reviewed the proposed permit for Chemours Washington Works R30-10700182-2024 (12 of 14). After review, EPA believes that WVDAQ has appropriately addressed the comments on the draft permit, and does not intend to provide any additional comments on the proposed permit; WV DAQ may issue the permit prior to the end of the EPA 45-day at it's discretion.

Please let me know if you have any questions.

Many thanks.

-gwen



Gwendolyn K. Supplee (She, her, hers)

Senior Permit Specialist/Life Scientist

**U.S. Environmental Protection Agency,
Region 3**

Permits Branch (3AD10)

Air & Radiation Division

Phone 215-814-2763

Email supplee.gwendolyn@epa.gov

From: McCumbers, Carrie <carrie.mccumbers@wv.gov>

Sent: Monday, April 22, 2024 2:47 PM

To: Supplee, Gwendolyn <Supplee.Gwendolyn@epa.gov>; Whapham, Joseph <Whapham.Joseph@epa.gov>

Cc: Modi, Beena J <beena.j.modi@wv.gov>; Laura M Crowder <laura.m.crowder@wv.gov>

Subject: Proposed Title V Permit for Chemours Washington Works R30-10700182-2024 (12 of 14)

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Attached are the Proposed Title V Permit and Fact Sheet for The Chemours Company, FC, LLC, Washington Works, R30-10700182-2024 (Part 12 of 14). WV DAQ received comments from AltmanNewman Co. LPA submitted on behalf of the Little Hocking Water Association. Their comments and DAQ's responses are provided in the Response to Comments (Statement of Basis) Section of the Fact Sheet. The comments did not result in any changes to the Title V Permit.

If you have any questions, please contact me.

Thanks,

Carrie

--

Carrie McCumbers

Title V Program Manager

WV DEP Division of Air Quality

(304) 926-0499 ext. 41278

Carrie.McCumbers@wv.gov



Response to Chemours Comments R30-10700182-2024 (12 of 14).pdf

192K



Modi, Beena J <beena.j.modi@wv.gov>

RE: Re: R30-10700208-2024 (13 of 14)

1 message

Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Fri, May 24, 2024 at 8:55 AM

Beena,

We really don't have any comments on the draft Title V Permit. Wanted to just update the phone number and LLC. Thanks Rob

Facility Location:	Washington, Wood County, West Virginia
Facility Mailing Address:	P. O. Box 2600, Washington, WV 26181-2600
Telephone Number:	(304) 863- 2236 <u>4244</u>
Type of Business Entity:	<u>Limited Liability Corporation (LLC)</u>
Facility Description:	Consolidation of laboratory services

Robert Keatley, PE
EH&S Senior Consultant
Washington Works



8480 DuPont Rd. B-24
Washington, WV 26181
Phone: 681.297.0554 Cell: 304.389.3518
Robert.Keatley@Celanese.com

www.celanese.com

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From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Thursday, May 23, 2024 10:42 AM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]Re: R30-10700208-2024 (13 of 14)

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Hi Robert,

Could you please send your comments by this week?

Thanks,

Beena

On Mon, May 20, 2024 at 10:35 AM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Thanks will do.

From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Wednesday, May 15, 2024 5:02 PM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]R30-10700208-2024 (13 of 14)

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Please review the attached factsheet & permit.

Let me know your comments by 5/21/2024.

Thanks,

Beena

**RE: Re: R30-10700208-2024 (13 of 14)**

1 message

Keatley, Robert, Celanese <Robert.Keatley@celanese.com>

To: "Modi, Beena J" <beena.j.modi@wv.gov>

Beena,

Sorry for the delay, but I wanted to mention this. Celanese Washington Works is no longer a major HAP source, but are still a Title V source because of PM emissions. Thanks

Due to the facility-wide potential to emit over 100 tons per year of criteria pollutants, ~~over 10 tons per year of an individual HAP, and over 25 tons per year aggregate HAPs~~, Celanese Polyn pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Title V Program Applicability Basis

Due to the facility-wide potential to emit over 100 tons per year of criteria pollutants, ~~ov~~ **individual HAP, and over 25 tons per year aggregate HAPs**, Celanese Polymer Products, L. operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30

I will provide more comments by today. Thanks

Rob

From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Thursday, May 23, 2024 10:42 AM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]Re: R30-10700208-2024 (13 of 14)

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Hi Robert,

Could you please send your comments by this week?

Thanks,

Beena

On Mon, May 20, 2024 at 10:35 AM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Thanks will do.

From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Wednesday, May 15, 2024 5:02 PM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]R30-10700208-2024 (13 of 14)

CAUTION: This email originated from outside Celanese. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please review the attached factsheet & permit.

5/28/24, 11:26 AM

State of West Virginia Mail - RE: Re: R30-10700208-2024 (13 of 14)

Let me know your comments by 5/21/2024.

Thanks,

Beena

Fact Sheet



For Draft/Proposed Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-10700208-2024 (13 of 14)**
Application Received: **November 14, 2023**
Plant Identification Number: **03-54-107-00208**
Permittee: **Celanese Polymer Products, LLC**
Facility Name: **Celanese Washington Works**
Business Unit: **Development and Laboratory Services**
Mailing Address: **P.O. Box 2600 Washington, WV 26181-2600**

Physical Location:	Washington, Wood County, West Virginia
UTM Coordinates:	442.103 km Easting • 4,346.800 km Northing • Zone 17
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 onto 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.

Facility Description

Development and Laboratory Services (Part 13 of 14) is the result of consolidation of laboratory services involved with the final product qualification and testing, 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.

Emissions Summary

Development and Laboratory Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2023 Actual Emissions
Carbon Monoxide (CO)	0.07	< 0.01
Nitrogen Oxides (NO _x)	0.01	< 0.01
Particulate Matter (PM _{2.5})	0.98	0.02
Particulate Matter (PM ₁₀)	0.98	0.02
Total Particulate Matter (TSP)	0.98	0.02
Volatile Organic Compounds (VOC)	0.54	0.01

Hazardous Air Pollutants	Potential Emissions	
Total HAPs	0.17	< 0.01

Some of the above HAPs may be counted as PM or VOCs.

Title V Program Applicability Basis

Due to the facility-wide potential to emit over 100 tons per year of criteria pollutants, ~~over 10 tons per year of an individual HAP, and over 25 tons per year aggregate HAPs~~, Celanese Polymer Products, LLC is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

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

Federal and State:	45CSR6	Open burning prohibited.
	45CSR7	Particulate matter and opacity limits for manufacturing sources.
	45CSR11	Standby plans for emergency episodes.
	45CSR13	Permits for construction, modification, relocation, etc.
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	40 C.F.R. Part 61 40 C.F.R. Part 82, Subpart F	Asbestos inspection and removal Ozone depleting substances
State Only:	45CSR4	No objectionable odors.
	45CSR27	Best Available Technology (BAT) for HAPs

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the 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, 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>)
R13-3574	September 26, 2022	
R13-2330H	September 22, 2017	

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," which may be downloaded from DAQ's website.

Determinations and Justifications

- ❖ There have been no equipment changes nor changes to the regulatory requirements at this facility since the issuance of R30-10700208-2019.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

- 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 Development and Laboratory Services.
- 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 Development and Laboratory Services.
- 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 Development and Laboratory Services.
- 40 C.F.R. 60, Subpart VV - "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry." Development and Laboratory Services does not produce as intermediates or final products any of the materials listed in §60.489.
- 40 C.F.R. 60, Subpart DDD - "Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry." Development and 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.” Development and 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 Development and 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 Development and Laboratory Services using halogenated solvents as listed in §63.460(a).
 - j. 40 C.F.R. 63, Subpart JJJ - “National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins.” Development and 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).” Development and 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.” Development and 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 Development and 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 Development and 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 Development and 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.” Development and Laboratory does not conduct site remediations as defined in §63.7957.
 - q. 40 C.F.R. 63, Subpart HHHH – “National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing.” Development and Laboratory Services does not manufacture coatings as defined in §63.8105.

- r. 40 C.F.R. 63, Subpart NNNNN – “National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production.” Development and Laboratory Services does not produce 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. Development and Laboratory Services does not conduct motor vehicle maintenance involving CFCs on site.
- t. 40 C.F.R. 63, Subpart DD – “National Emission Standards for Hazardous Air Pollutants From Off-Site Waste and Recovery Operations.” The Development and Laboratory Services Area does not receive off-site materials as specified in paragraph 40 C.F.R §63.680(b) and the operations are not one of the waste management operations or recovery operations as specified in 40 C.F.R. §§63.680(a)(2)(vi).
- u. 40 C.F.R. 63, Subpart WWWW – “National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production.” The Development and Laboratory Services Area does not engage in reinforced plastics composites production as defined in 40 C.F.R. §63.5785 and does not manufacture composite material as defined in 40 C.F.R. §63.5935.
- v. 40 C.F.R. 63, Subpart DDDDD – “National Emission Standards for Hazardous Air Pollutants: Industrial/Commercial/Institutional Boilers and Process Heaters.” The Development and Laboratory Services Area does not own or operate an industrial, commercial, or institutional boiler or process heater as defined in 40 C.F.R. §63.7575.
- w. 45CSR2 – “To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers.” The Development and Laboratory Services Area does not contain any fuel burning units.
- x. 45CSR10 – “To Prevent and Control Air Pollution from the Emission of Sulfur Oxides.” The Development and Laboratory Services Area does not have any emission sources of sulfur oxides subject to this rule.
- y. 45CSR16 – “Standards of Performance for New Stationary Sources Pursuant to 40 C.F.R. 60.” The Development and Laboratory Services is not subject to any requirements under 40 C.F.R. 60.
- z. 45CSR17 – “To Prevent and Control Particulate Matter Air Pollution from Materials Handling, Preparation, Storage and Other Sources of Fugitive Particulate Matter.” Per 45CSR§17-6.1, the Development and Laboratory Services Area is not subject to 45CSR17 because it is subject to the fugitive particulate matter emission requirements of 45CSR7.
- aa. 45CSR34 – “Emission Standards for Hazardous Air Pollutants.” Development and Laboratory Services Area is not subject to any requirements under 40 C.F.R. 61 or 40 C.F.R. 63.
- ab. 40 CFR Part 64 – The facility did not have any pollutant specific emissions units (PSEUs) that satisfied all of the applicability criteria requirements of 40 CFR §64.2(a). There have been no emission units added to this permit since the previous renewal was issued, so CAM remains not applicable to any emission unit listed in the renewal application.

Request for Variances or Alternatives

None

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: (Date of Notice Publication)

Ending Date: (Publication Date PLUS 30 Days)

Point of Contact

All written comments should be addressed to the following individual and office:

Beena Modi
West Virginia Department of Environmental Protection
Division of Air Quality
601 57 th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 41283
Beena.j.modi@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

(Choose) Not applicable.

OR

Describe response to comments that are received and/or document any changes to the final permit from the draft/proposed permit.



Modi, Beena J <beena.j.modi@wv.gov>

RE: Re: Emission Summary Table-R30-10700208-2024 (13 of 14)

1 message

Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Thu, May 9, 2024 at 9:53 AM

Hi Beena,

Based on the review of the PTE for PM 2.5 and our discussions, I have attached an updated PTE Table for the Central Lab. We have taken a very conservative approach to the PM 2.5 PTE and assumed PM could possibly be all PM 2.5.

If you have any questions, please let me know. Thanks

Rob

Robert Keatley
EH&S Senior Consultant
Washington Works



8480 DuPont Rd. B-24

Washington, WV 26181

Phone: 681.297.0554 Cell: 304.389.3518

Robert.Keatley@Celanese.comwww.celanese.com

The information contained in this e-mail, and any attachments thereto, is confidential and is intended only for use by the individual(s) and/or entity named above. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution or copying of this communication or any disclosure of the contents of this communication to others is strictly prohibited. If you have received this communication in error, please notify the sender immediately by replying to this e-mail. Please then delete the original including all attachments and any copy of any e-mail and printout thereof.

From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Tuesday, May 7, 2024 12:23 PM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]Re: Emission Summary Table-R30-10700208-2024 (13 of 14)

CAUTION: This email originated from outside Celanese. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Robert,

For PM 2.5, Actuals should not be greater than the potential to emit. Could you please check on it?

Thanks,

Beena

bEENA

On Wed, Apr 17, 2024 at 8:40 AM Keatley, Robert, Celanese <Robert.Keatley@celanese.com> wrote:

Beena,

How have you been? The actual emissions from our AEI are listed below.

Dev & Lab	2023 Actual Emissions
CO	0.000286
NOX	0.00029732
PM25	0.01969315
PM10	0.01969315
TSP	0.01969315
VOC	0.0098776
	0.002112
Total HAP'S	

Thanks

Rob

Robert Keatley, PE
EH&S Senior Consultant
Washington Works



8480 DuPont Rd. B-24

Washington, WV 26181

Phone: 681.297.0554 Cell: 304.389.3518

Robert.Keatley@Celanese.com

www.celanese.com

The information contained in this e-mail, and any attachments thereto, is confidential and is intended only for use by the individual(s) and/or entity named above. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution or copying of this communication or any disclosure of the contents of this communication to others is strictly prohibited. If you have received this communication in error, please notify the sender immediately by replying to this e-mail. Please then delete the original including all attachments and any copy of any e-mail and printout thereof.

From: Modi, Beena J <beena.j.modi@wv.gov>
Sent: Tuesday, April 16, 2024 4:52 PM
To: Keatley, Robert, Celanese <Robert.Keatley@celanese.com>
Subject: [EXT]Emission Summary Table-R30-10700208-2024 (13 of 14)

CAUTION: External Email

Hi Robert,

Could you please fill out the missing numbers in the table below?

Thanks,

Beena

Emissions Summary

Development and Laboratory Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2023 Actual Emissions
Carbon Monoxide (CO)	0.07	
Nitrogen Oxides (NO _x)	0.01	
Particulate Matter (PM _{2.5})	0.00	
Particulate Matter (PM ₁₀)	0.98	
Total Particulate Matter (TSP)	0.98	
Volatile Organic Compounds (VOC)	0.54	
<hr/>		
Hazardous Air Pollutants	Potential Emissions	
Total HAP's	0.17	

Some of the above HAPs may be counted as PM or VOCs.

 **Emissions Summary for Development Laboratory Services - 2023 rev 5-9-24.pdf**
9K

Emissions Summary for Development Laboratory Services

Plant-wide Emissions Summary [Tons per Year]		
Criteria Pollutants	Potential Emissions	2022 Actual Emissions
Carbon Monoxide (CO)	0.0645	0.0006
Nitrogen Oxides (NO _x)	0.0096	0.0003
Lead (Pb)	0.0	0.0
Particulate Matter (PM _{2.5})	0.0 0.98	0.0155
Particulate Matter (PM ₁₀)	0.98	0.0155
Total Particulate Matter (TSP)	0.98	0.0155
Sulfur Dioxide (SO ₂)	0.0	0.0
Volatile Organic Compounds (VOC)	0.541	0.0102
<i>PM₁₀ is a component of TSP.</i>		
Hazardous Air Pollutants	Potential Emissions	2017 Actual Emissions
Formaldehyde	0.00165	0.00009
HCl	0.05	0.00007
Methanol	0.0184	0.0006
Methylene Chloride	0.04	0.0012
Toluene	0.0414	0.0
Phenol	0.00935	0.00004
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	2022 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.



Modi, Beena J <beena.j.modi@wv.gov>

R30-10700208-2024 (13 of 14)

1 message

Modi, Beena J <beena.j.modi@wv.gov>

Mon, Jan 8, 2024 at 1:51 PM

To: John.Kovaleski@celanese.com, Ryan.Birge@celanese.com, Robert.Keatley@celanese.com

Your Title V renewal application for a permit to operate the above referenced facility was received by this Division on November 14, 2023. After review of said application, it has been determined that the application is administratively complete as submitted. Therefore, the above referenced facility qualifies for an Application Shield.

The applicant has the duty to supplement or correct the application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit.

The submittal of a complete application shall not affect the requirement that any source have all **preconstruction permits** required under the rules of the Division.

If during the processing of this application it is determined that additional information is necessary to evaluate or take final action on this application, a request for such information will be made in writing with a reasonable deadline for a response. Until which time as your renewal permit is issued or denied, please continue to operate this facility in accordance with 45CSR30, section 6.3.c. which states: *If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.* This protection shall cease to apply if, subsequent to the completeness determination made pursuant to paragraph 6.1.d. of 45CSR30 and as required by paragraph 4.1.b., the applicant fails to submit by the deadline

specified in writing any additional information identified as being needed to process the application.

Please remember, **failure of the applicant to timely submit information required or requested to process the application may cause the Application Shield to be revoked.** Should you have any questions regarding this determination, please call me at (304)926-0499 ext. 41283.

Sincerely,

Beena Modi

Title V Permit Engineer

Beena.j.modi@wv.gov

Division of Air Quality Permit Application Submittal

Please find attached a permit application for :

[Company Name; Facility Location]

- DAQ Facility ID (for existing facilities only):
- Current 45CSR13 and 45CSR30 (Title V) permits associated with this process (for existing facilities only):

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

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

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

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

- If the permit writer has any questions, please contact (all that apply):
 - Responsible Official/Authorized Representative
 - Name:
 - Email:
 - Phone Number:
 - Company Contact
 - Name:
 - Email:
 - Phone Number:
 - Consultant
 - Name:
 - Email:
 - Phone Number:

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



Washington Works

8480 DuPont Road
PO Box 2600
Washington, WV 26181

November 14, 2023

SUBMITTED BY EMAIL

Laura M. Crowder, Director
Division of Air Quality
WV Department of Environmental Protection
601 57th Street S.E.
Charleston, WV 25304

Dear Ms. Crowder:

**RE: Title V Permit 10700208-2019 (Part 13 of 14) Renewal Application – Celanese-
Washington Works, Development and Lab Services**

Dear Ms. Crowder:

Enclosed, please find the required Title V Renewal Application for the Development and Lab Services (DLS) area (Part 13 of 14) for the DuPont Polymer Products (aka Celanese Washington Works) facility. The renewal application is based on the existing Title V Permit.

Should you have any questions about the documents, please contact, Robert Keatley, at (304) 863-4240 or at Robert.Keatley@Celanese.com.

Very truly yours,

Ryan Birge
EHS Manager
Celanese Washington Works

Enclosure

CC: Carrie McCumbers, DAQ Title V Program Manager (email)



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

Form with 9 sections: 1. Name of Applicant (As registered with the WV Secretary of State's Office): DuPont Polymer Products, LLC; 2. Facility Name or Location: Celanese - Washington Works; 3. DAQ Plant ID No.: 107-00208; 4. Federal Employer ID No. (FEIN): 87-3594684; 5. Permit Application Type: Permit Renewal; 6. Type of Business Entity: LLC; 7. Is the Applicant the: Both; 8. Number of onsite employees: 422; 9. Governmental Code: Privately owned and operated; 0.

10. Business Confidentiality Claims

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

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

11. Mailing Address

Street or P.O. Box: P. O. Box 2600

City: Washington

State: WV

Zip: 26181-2600

Telephone Number: (304) 863-4240 (gatehouse)

Fax Number:

12. Facility Location (Physical Address)

Street: 8480 DuPont Road, Bldg. 24

City: Washington

County: Wood

UTM Easting: 442.368 km

UTM Northing: 4346.679 km

Zone: 17 or 18

Directions: From I77 take Rt. 50 exit by-pass around Parkersburg toward Athens, Ohio. Take the last exit (DuPont Rd) in West Virginia of Rt. 50 by-pass. At light make a left onto DuPont Rd approximately 1/2 mile. The plant is visible on the right side of the road. Enter at the main gate.

Portable Source? Yes No

Is facility located within a nonattainment area? Yes No

If yes, for what air pollutants?

Is facility located within 50 miles of another state? Yes No

If yes, name the affected state(s).
Ohio

Is facility located within 100 km of a Class I Area¹? Yes No

If no, do emissions impact a Class I Area¹? Yes No

If yes, name the area(s).

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

13. Contact Information		
Responsible Official: John Kovaleski		Title: Plant Manager
Street or P.O. Box: P. O. Box 2600		
City: Washington	State: WV	Zip: 26181-2600
Telephone Number: (304) 863-4240	Fax Number:	
E-mail address: John.Kovaleski@Celanese.com		
Environmental Contact: Ryan Birge		Title: EHS Manager
Street or P.O. Box: P. O. Box 2600		
City: Washington	State: WV	Zip: 26181-2600
Telephone Number: (681) 484-2346	Fax Number: Fax Number:	
E-mail address: Ryan.Birge@Celanese.com		
Application Preparer: Robert Keatley		Title: Senior EHS Consultant
Company: Celanese Corporation (dba DuPont Polymer Products, LLC)		
Street or P.O. Box: P. O. Box 2600		
City: Washington	State: WV	Zip: 26181-2600
Telephone Number: (681) 484-2651	Fax Number: Fax Number:	
E-mail address: Robert.Keatley@Celanese.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	Support and Testing for Production Units	325211	2821

Provide a general description of operations.

Celanese - Washington Works is a multiple business, multiple product line facility that produces plastic resins and their associated feedstock materials. Development and Laboratory Services Area is the result of consolidation of laboratory services involved with the final product qualification and testing, intermediate process sample analysis, and raw material qualification. The area also maintains a small facility 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 (45CSR34)	<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"/> Cross-State Air Pollution Rule (45CSR43)	

19. Non Applicability Determinations

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

- 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 Development and 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 Development and 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 Development and 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." Development and 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." Development and 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." Development and 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 Development and 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 Development and Laboratory Services using halogenated solvents as listed in §63.460(a).

Permit Shield

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

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

- j. 40 C.F.R. 63, Subpart JJJ - “National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins.” Development and 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).” Development and 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.” Development and 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 Development and Laboratory Services subject to the requirements of this rule.
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Permit Shield

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- v. 40 C.F.R. 63, Subpart DDDDD – “National Emission Standards for Hazardous Air Pollutants: Industrial/Commercial/Institutional Boilers and Process Heaters.” The Development and Laboratory Services Area does not own or operate an industrial, commercial, or institutional boiler or process heater as defined in 40 C.F.R. §63.7575.
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- x. 45CSR10 – “To Prevent and Control Air Pollution from the Emission of Sulfur Oxides.” The Development and Laboratory Services Area does not have any emission sources of sulfur oxides subject to this rule.
- y. 45CSR16 – “Standards of Performance for New Stationary Sources Pursuant to 40 C.F.R. 60.” The Development and Laboratory Services is not subject to any requirements under 40 C.F.R. 60.
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- aa. 45CSR34 – “Emission Standards for Hazardous Air Pollutants.” Development and Laboratory Services Area is not subject to any requirements under 40 C.F.R. 61 or 40 C.F.R. 63.
- ab. 40 CFR 64 – Compliance Assurance Monitoring
According to 40 C.F.R. §64.2(a), CAM applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit if the unit satisfies all of the following criteria: 1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or a surrogate thereof), other than an emission limitation or standard that is exempt under 40 C.F.R. §64.2(b)(1); 2) The unit uses a control device to achieve compliance with any such emission limitation or standard; and 3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. 40 C.F.R. §64.2(b)(1)(i) exempts emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act; and 40 C.F.R. §64.2(b)(1)(vi) exempts emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method. The Development and Laboratory Services Area does not have a pollutant-specific emissions unit with potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. It also does not have control devices to achieve compliance with an emission limitation or standard. Therefore, CAM does not apply.

Permit Shield

20. Facility-Wide Applicable Requirements

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

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). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. 61.145(b) and 45CSR34]
- 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. **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]
- 3.1.6. **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)]
- 3.1.7. **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]

Permit Shield

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).

- 3.1.8. **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]
- 3.1.9. **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.]
- 3.1.10. **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.]
- 3.1.11. 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.]
- 3.1.12. 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.]
- 3.1.13. 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, R13-3574, 4.1.1.]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A. The hourly and annual emission limits for the affected sources are provided in R13-2330 Table 5.1.1.
- 3.1.14. The permitted sources identified in Attachment A of permit R13-3574 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 R13-3574, are also demonstrated. The applicable requirements set forth by 45CSR21 shall include, but not be limited to, the following: [45CSR13, R13-3574, 4.1.2.]

Permit Shield

20. Facility-Wide Applicable Requirements (continued)

- 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 R13-3574. **[45CSR13, R13-3574, 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, R13-3574, 4.1.2.2.; 45CSR§21-40.3.c. (State Enforceable Only)]**
 - 1. The RACT control plan(s) shall be embodied in a permit in accordance to 45CSR13. **[45CSR13, R13-3574, 4.1.2.2.a.; 45CSR§21-40.4.e. (State Enforceable Only)]**
 - 2. 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 4.1.2.1. of this permit. **[45CSR13, R13-3574, 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 4.1.2.3. of this permit. **[45CSR13, R13-3574, 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, R13-3574, 4.1.2.4.; 45CSR§21-40.3.c. (State Enforceable Only)]**
 - 1. The RACT control plan(s) shall be embodied in a permit in accordance to 45CSR13. **[45CSR13, R13-3574, 4.1.2.4.a.; 45CSR§21-40.4.e. (State Enforceable Only)]**
 - 2. The facility-wide RACM plan shall be modified to include the RACT analysis conducted on the modified source(s). **[45CSR13, R13-3574, 4.1.2.4.b.]**
 - 3. 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, R13-3574, 4.1.2.4.c.]**

- 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 3.1.14.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 3.1.1.14.a. of this permit. **[45CSR13, R13-3574, 4.1.2.5.]**

Permit Shield

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).

- f. In the event a source and associated emission point identified in Attachment A of permit R13-3574 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 R13-3574. [45CSR13, R13-3574, 4.1.2.6.]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

- 3.1.15. The permitted sources identified in Attachment A of permit R13-3574 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 R13-3574, are also demonstrated. The applicable requirements set forth by 45CSR27 shall include, but not be limited to, the following: [45CSR13, R13-3574, 4.1.3.; R13-2330, 5.1.4.]

- 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 R13-3574. [45CSR13, R13-3574, 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 R13-3574 as operating in TAP service. [45CSR13, R13-3574, 4.1.3.2.; 45 CSR§27-4.1. (State Enforceable Only)]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

- 3.1.16. In the event a source and associated emission point identified in Attachment A of permit R13-3574 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 4.1.3. of permit R13-3574. [45CSR13, R13-3574, 4.1.4.; 45 CSR§27-3.1. (State Enforceable Only)]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

- 3.1.17. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the Extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.1 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. [45CSR§13- 5.11.; 45CSR13, R13-3574, 4.1.5; R13-2330, 5.1.5.]

Permit Shield

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 R13-3574 irrespective of whether or not such units produce as intermediates or final products, substances on the lists contained within 40CFR60, 40CFR61, or 40CFR63. **[45CSR13, R13-3574, 4.2.1.; 45 CSR§21-40.3.a.2. (State Enforceable Only)]**

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area 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 R13-3574 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, R13-3574, 4.2.2.; 45 CSR§27-4.1. (State Enforceable Only)]**

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

- 3.2.3. In the event a source and associated emission point identified in Attachment A of permit R13-3574 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, R13-3574, 4.2.3.; 45CSR§21-37.1.c. (State Enforceable Only)]**

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

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:

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.)

- 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.
- 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.
- 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.
- d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
 1. The permit or rule evaluated, with the citation number and language.
 2. The result of the test for each permit or rule condition.
 3. A statement of compliance or non-compliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

- 3.3.2. **45CSR21.** 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, R13-3574, 4.3.1.; 45CSR§21-40.3.a.2. (State Enforceable Only)]

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.)

- 3.3.3. **45CSR21 and 45CSR27.** In the event a source and associated emission point identified in Attachment A of permit R13-3574 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, R13-3574, 4.3.2.; 45CSR§21-37.1.c. (State Enforceable Only)]**

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

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.)

3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
- The date, place as defined in this permit and time of sampling or measurements;
 - The date(s) analyses were performed;
 - The company or entity that performed the analyses;
 - The analytical techniques or methods used;
 - The results of the analyses; and
 - The operating conditions existing at the time of sampling or measurement.
- [45CSR§30-5.1.c.2.A.; 45CSR13, R13-3574, 4.4.1.; R13-2330, 5.4.1]
- 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.]
- 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 3.1.10 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 R13-3574 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, R13-3574, 4.4.4.]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

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.)

- 3.4.7. 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 R13-3574. [45CSR13, R13-3574, 4.4.5.]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

- 3.4.8 **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.1, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures. [45CSR13, R13-3574, 4.4.2; 45CSR13, R13-2330, 5.4.2.]
- 3.4.9 **Records of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.1, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
- a. The equipment involved.
 - b. Steps taken to minimize emissions during the event.
 - c. The duration of the event.
 - d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[45CSR13, R13-3574, 4.4.3; 45CSR13, R13-2330, 5.4.3.]

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.]
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§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 person or address as the Secretary of the Department of Environmental Protection may designate:

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.)

DAQ: Director WVDEP Division of Air Quality 601 57 th Street SE Charleston, WV 25304	USEPA: Section Chief U.S. Environmental Protection Agency, Region III Enforcement and Compliance Assurance Division Air, RCRA, and Toxics Branch (3ED21) Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, PA 19103-2852
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DAQ Compliance and Enforcement¹:
DEPAirQualityReports@wv.gov

¹For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

3.5.4. **Fees.** The permittee shall pay fees on an annual basis in accordance with 45CSR§30-8.
[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. The annual certification shall be submitted in electronic format by e-mail to the following address:

DAQ: DEPAirQualityReports@wv.gov [45CSR§30-5.3.e.]	USEPA: R3_APD_Permits@epa.gov
---	---

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. The semi-annual reports shall be submitted in electronic format by e-mail to the following address:

DAQ:
DEPAirQualityReports@wv.gov
[45CSR§30-5.1.c.3.A.]

3.5.7 **Reserved**

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. Reserved
 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.

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. 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.]

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.]

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 include those sources listed in Attachment A of permit R13-3574 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, R13-3574, 4.5.1.]

The R13-3574 Attachment A listing for those sources in the Development and Laboratory Services Area is provided in APPENDIX A.

3.6. Compliance Plan
N/A

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>
R13-3574	09/26/2022	NA
R13-2330	09/29/2017	NA

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance MM/DD/YYYY	Permit Condition Number

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) ¹	0.98
Total Particulate Matter (TSP)	0.98
Sulfur Dioxide (SO ₂)	0.0
Volatile Organic Compounds (VOC)	0.541
Hazardous Air Pollutants ²	Potential 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

¹PM_{2.5} and PM₁₀ are components of TSP.
²For 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: _____

24. Insignificant Activities (Check all that apply)	
<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.
<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.

24. Insignificant Activities (Check all that apply)	
<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. Shock chambers.
<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.
<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 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 as defined in 45CSR§30-2.38.

a. Certification of Truth, Accuracy and Completeness

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


b. Compliance Certification

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

Responsible official (type or print)

Name: John Kovalski	Title: Plant Manager
---------------------	----------------------

Responsible official's signature:

Signature:  Signature Date: 11/14/2023

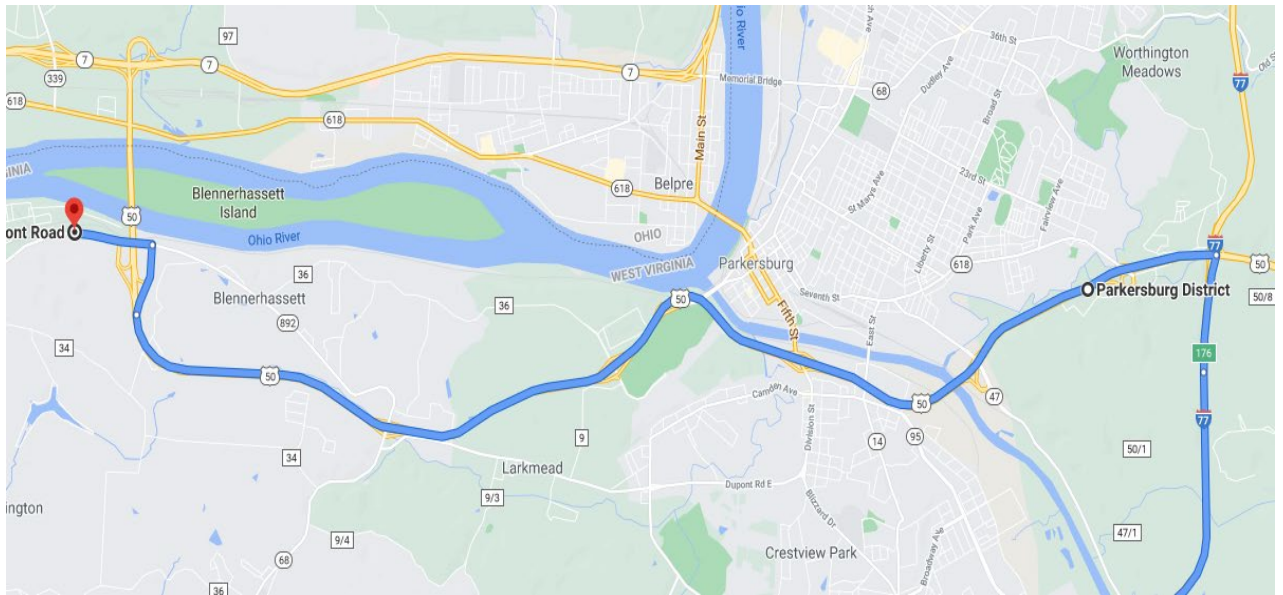
(Must be signed and dated in blue ink)

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) No Schedule is required
<input type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s) No sources employ control devices
<input type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s) Non-Applicability form included

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

ATTACHMENT A

MAP to the Facility



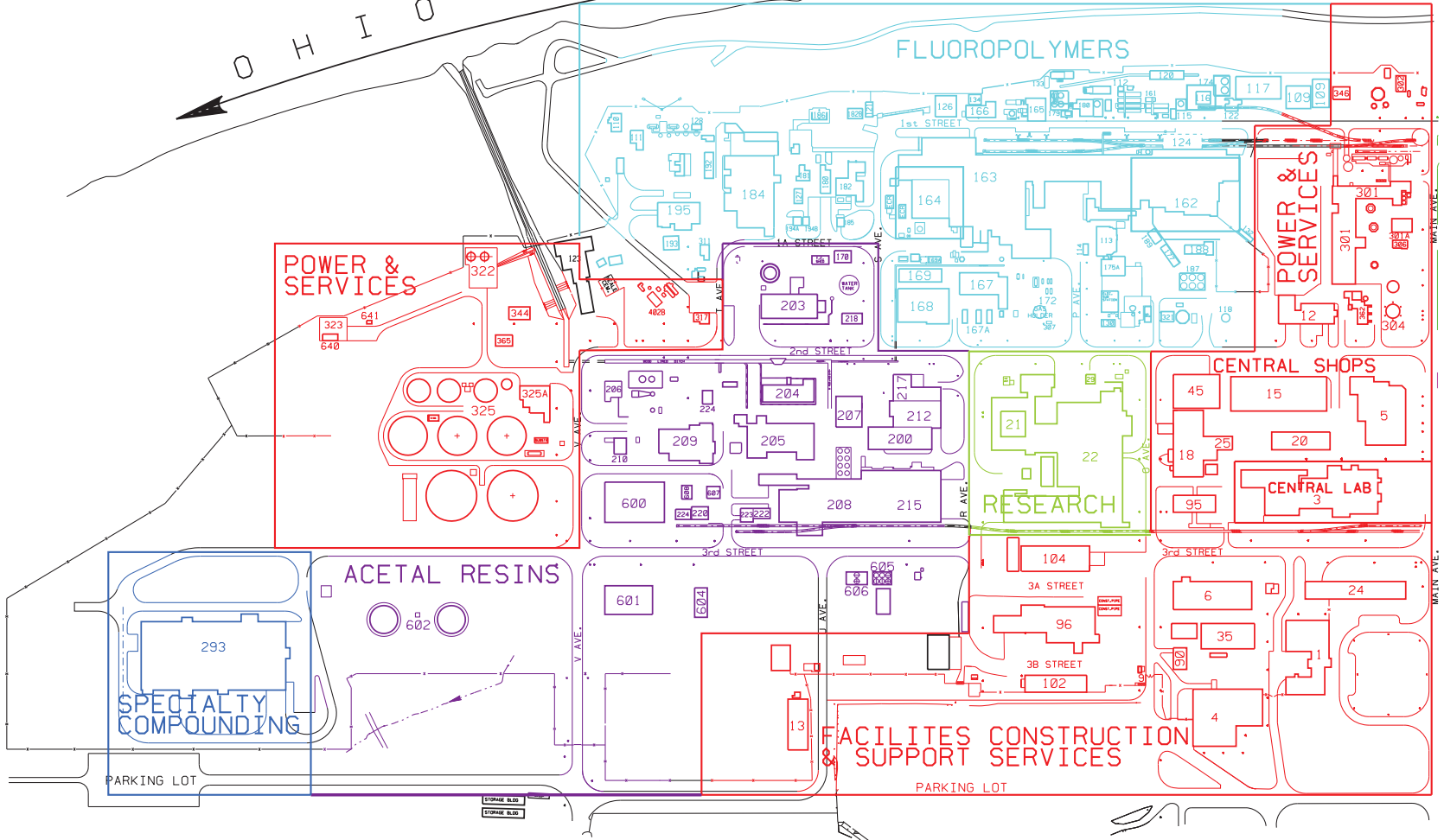
From Interstate 77, take exit 176 to US 50W towards Athens, Ohio. Proceed west until exit for DuPont Rd (Rt-892). Then, turn left (south) onto DuPont Rd, Rt-892. Proceed approx. 1 mile to facility on right.

ATTACHMENT B – Plot Plan

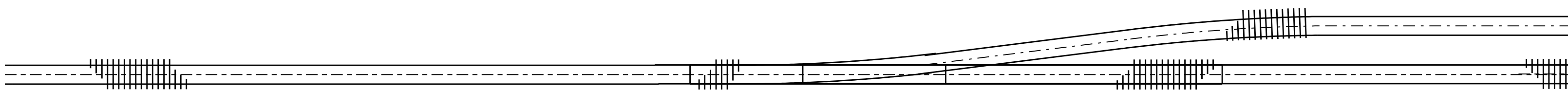
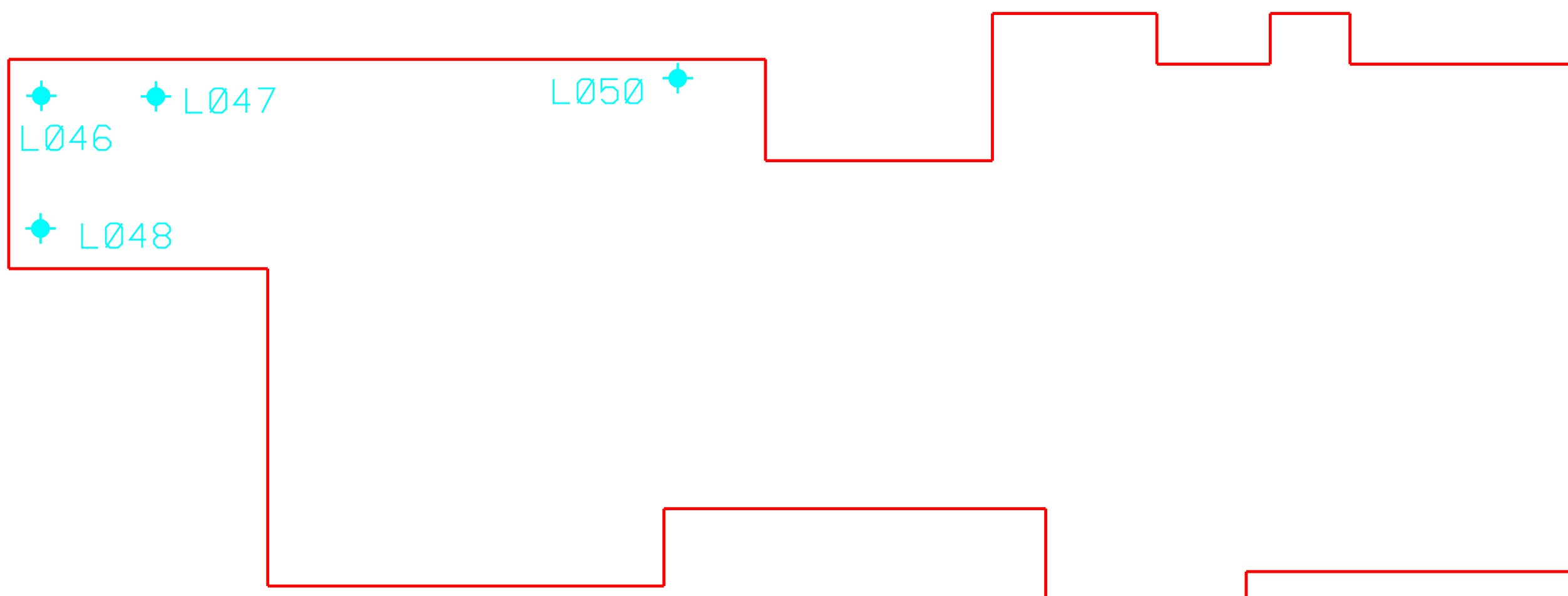
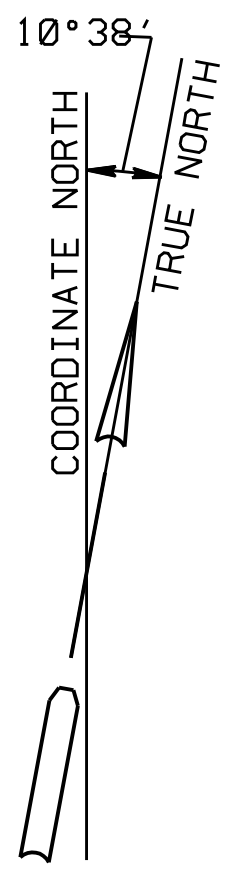
Plot Plan for the Development & Laboratory Services shows individual stack locations for the stacks that are affected by R13-3574 and R13-2330. The remaining stacks are lumped into a virtual stack for emissions purposes that is designated in the documents as emission point LB3E.



O H I O R I V E R



WASHINGTON WORKS TITLE 5 APPLICATION UPDATE		<small>THIS DRAWING HAS BEEN FURNISHED BY E.I. DUPONT DE NEMOURS & CO. THE INFORMATION AND RECOMMENDATIONS ARE GIVEN AS ADVICE ONLY. THE DRAWING ENGINEER ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS. ALL REPRODUCTIONS OR ALTERATIONS OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF THE ENGINEER ARE PROHIBITED. CONSULT THE ENGINEER FOR ANY CHANGES. SCALE AS NOTED ON THIS DRAWING.</small>	
SCALE: 1" = 300' DRAWN BY: JUDY GASTON CREATED BY: DAVE BRENNEN CHECKED BY: APPROVED BY:	DATE: 11-28-91 12-3-91	C-1B	WASHINGTON WORKS WW M-809 AR
DES. CODE CLASH	REV. NO.	FILE NUMBER	PROJ. NO.

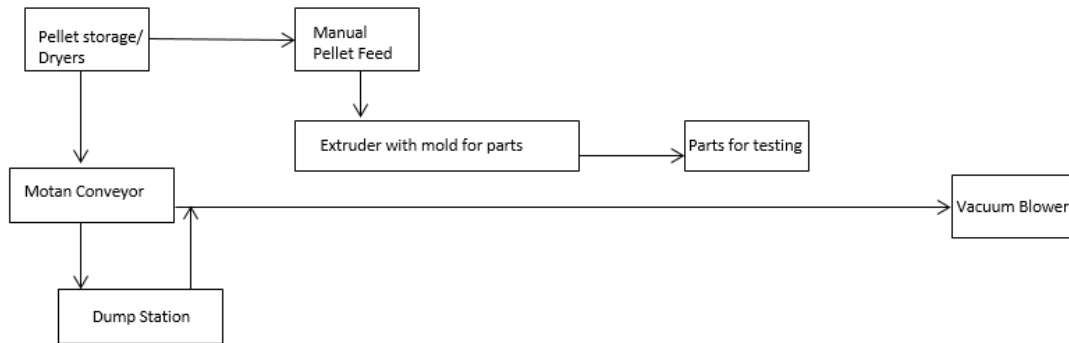


CENTRAL LABORATORY R-13 PERMIT APPLICATION PLOT PLAN	
DAVE DRENNEN 2-10-06 SCALE: 1" = 60'	WWM666D

ATTACHMENT C - PROCESS FLOW DIAGRAMS

All of the sources in the DLS facility – other than those specifically designated in R13-2330 and R13-3574 – 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 and L050 are associated with the production of test parts for quality control purposes through the use of small extrusion units. These units consist of manual extruder feed, a die head that molds parts for analytical testing and a vacuum blower to convey unused plastic pellets to the dump station.



ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as
insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
L001	L001E	Laboratory Hood	1976	175 ACFM	N/A
L001	LB3E	Laboratory Hood	1976	175 ACFM	N/A
L002	L002E	Laboratory Hood	1976	500 ACFM	N/A
L002	LB3E	Laboratory Hood	1976	500 ACFM	N/A
L003	L003E	Laboratory Hood	1976	700 ACFM	N/A
L003	LB3E	Laboratory Hood	1976	700 ACFM	N/A
L004	L004E	Laboratory Hood	1976	700 ACFM	N/A
L004	LB3E	Laboratory Hood	1976	700 ACFM	N/A
L005	L005E	Laboratory Hood	1976	650 ACFM	N/A
L005	LB3E	Laboratory Hood	1976	650 ACFM	N/A
L006	L006E	Laboratory Hood	1976	500 ACFM	N/A
L006	LB3E	Laboratory Hood	1976	500 ACFM	N/A
L007	L007E	Laboratory Hood	1976	650 ACFM	N/A
L007	LB3E	Laboratory Hood	1976	650 ACFM	N/A
L008	L008E	Laboratory Hood	1976	450 ACFM	N/A
L008	LB3E	Laboratory Hood	1976	450 ACFM	N/A
L009	L009E	Laboratory Hood	1976	3500 samples/year	N/A
L009	LB3E	Laboratory Hood	1976	3500 samples/year	N/A
L010	L010E	Laboratory Hood	1976	800 ACFM	N/A
L010	LB3E	Laboratory Hood	1976	800 ACFM	N/A
L011	L011E	Laboratory Hood	1976	1890 ACFM	N/A
L011	LB3E	Laboratory Hood	1976	1890 ACFM	N/A
L012	L012E	Laboratory Hood	1976	1890 ACFM	N/A
L012	LB3E	Laboratory Hood	1976	1890 ACFM	N/A

¹For 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 D - Title V Equipment Table
(includes all emission units at the facility except those designated as
insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID ¹	Emission Unit ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
L013	L013E	Laboratory Hood	1976	1500 ACFM	N/A
L013	LB3E	Laboratory Hood	1976	1500 ACFM	N/A
L014	L014E	Laboratory Hood	1976	1500 ACFM	N/A
L014	LB3E	Laboratory Hood	1976	1500 ACFM	N/A
L015	L015E	Laboratory Hood	1976	650 ACFM	N/A
L015	LB3E	Laboratory Hood	1976	650 ACFM	N/A
L016	L016E	Laboratory Hood	1976	1500 samples/year	N/A
L016	LB3E	Laboratory Hood	1976	1500 samples/year	N/A
L017	L017E	Laboratory Hood	1987	1700 ACFM	N/A
L017	LB3E	Laboratory Hood	1987	1700 ACFM	N/A
L018	L018E	Laboratory Hood	1987	2100 ACFM	N/A
L018	LB3E	Laboratory Hood	1987	2100 ACFM	N/A
L019	L019E	Laboratory Hood	1957	700 ACFM	N/A
L019	LB3E	Laboratory Hood	1957	700 ACFM	N/A
L020	L020E	Laboratory Hood	1957	1000 ACFM	N/A
L020	LB3E	Laboratory Hood	1957	1000 ACFM	N/A
L021	L021E	Laboratory Hood	1957	1000 ACFM	N/A
L021	LB3E	Laboratory Hood	1957	1000 ACFM	N/A
L022	L022E	Laboratory Hood	1957	800 ACFM	N/A
L022	LB3E	Laboratory Hood	1957	800 ACFM	N/A
L023	L023E	Laboratory Hood	1957	800 ACFM	N/A
L023	LB3E	Laboratory Hood	1957	800 ACFM	N/A
L024	L024E	Laboratory Hood	1957	1300 ACFM	N/A
L024	LB3E	Laboratory Hood	1957	1300 ACFM	N/A

¹For 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 D - Title V Equipment Table
(includes all emission units at the facility except those designated as
insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
L025	L025E	Laboratory Hood	1957	900 ACFM	N/A
L025	LB3E	Laboratory Hood	1957	900 ACFM	N/A
L026	L026E	Laboratory Hood	1957	400 ACFM	N/A
L026	LB3E	Laboratory Hood	1957	400 ACFM	N/A
L027	L027E	Laboratory Hood	1957	800 ACFM	N/A
L027	LB3E	Laboratory Hood	1957	800 ACFM	N/A
L028	L028E	Laboratory Hood	1957	700 ACFM	N/A
L028	LB3E	Laboratory Hood	1957	700 ACFM	N/A
L029	L029E	Laboratory Hood	1957	800 ACFM	N/A
L029	LB3E	Laboratory Hood	1957	800 ACFM	N/A
L030	L030E	Laboratory Hood	1957	800 ACFM	N/A
L030	LB3E	Laboratory Hood	1957	800 ACFM	N/A
L031	L031E	Laboratory Hood	1957	800 ACFM	N/A
L031	LB3E	Laboratory Hood	1957	800 ACFM	N/A
L032	L032E	Laboratory Hood	1987	1800 ACFM	N/A
L032	LB3E	Laboratory Hood	1987	1800 ACFM	N/A
L033	L033E	Laboratory Hood	1976	1170 ACFM	N/A
L033	LB3E	Laboratory Hood	1976	1170 ACFM	N/A
L034	L034E	Laboratory Hood	1976	1240 ACFM	N/A
L034	LB3E	Laboratory Hood	1976	1240 ACFM	N/A
L035	L035E	Laboratory Hood	2000	500 ACFM	N/A
L035	LB3E	Laboratory Hood	2000	500 ACFM	N/A
L036	L036E	Laboratory Hood	1976	650 ACFM	N/A
L036	LB3E	Laboratory Hood	1976	650 ACFM	N/A

¹For 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 D - Title V Equipment Table
(includes all emission units at the facility except those designated as
insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
L037	L037E	Laboratory Hood	1976	150 ACFM	N/A
L037	LB3E	Laboratory Hood	1976	150 ACFM	N/A
L038	L038E	Laboratory Hood	1976	960 ACFM	N/A
L038	LB3E	Laboratory Hood	1976	960 ACFM	N/A
L039	L039E	Laboratory Hood	1976	800 ACFM	N/A
L039	LB3E	Laboratory Hood	1976	800 ACFM	N/A
L040	L040E	Laboratory Hood	1976	850 ACFM	N/A
L040	LB3E	Laboratory Hood	1976	850 ACFM	N/A
L046	L046E	Batenfield, Demag #5	1995	61360 samples/year	N/A
L047	L047E	Demag #1, Demag #2	1995	61360 samples/year	N/A
L048	L048E	Demag #3, Demag #4, Weatherometers	1995	61360 samples/year	N/A
L049	L049E (inside vent)	Milling Machine	1999	100 ACFM	N/A
L050	L050E	Motan Conveyor System	1995	153320 samples/year	N/A

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L001	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L001E.
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 175 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L002	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L002E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 500 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L003	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L003E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 700 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L004	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L004E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 700 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L005	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L005E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 650 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L006	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L006E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 500 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L007	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L007E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 650 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L008	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L008E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 450 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)

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 Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L009	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L009E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 3500 samples/years

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L010	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L010E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L011	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L011E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1890 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L012	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L012E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1890 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L013	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L013E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1500 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L014	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L014E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1500 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L015	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L015E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 650 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: L016	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None	
<p>Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)</p> <p>Laboratory Hood - Mixed use - Vents through L016E Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.</p>			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1500 samples/year			
Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___ Direct Fired	
Maximum design heat input and/or maximum horsepower rating: N/A		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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L017	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L017E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/9/1987	Installation date: 6/9/1987	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1700 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L018	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L018E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/9/1987	Installation date: 6/9/1987	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 2100 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L019	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L019E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 700 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L020	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L020E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1000 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L021	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L021E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1000 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L022	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L022E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L023	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L023E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L024	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L024E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1300 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L025	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L025E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 900 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L026	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L026E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 400 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L027	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L027E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L028	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L028E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 700 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L029	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L029E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L030	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L030E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L031	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L031E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/10/1957	Installation date: 5/10/1957	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L032	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L032E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/9/1987	Installation date: 6/9/1987	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L033	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L033E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1170 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L034	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L034E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 1240 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L035	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L035E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/22/2000	Installation date: 6/22/2000	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 500 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L036	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L036E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 650 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L037	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L037E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 150 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L038	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L038E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 960 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L039	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L039E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 800 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.2	0.5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride (Total for all hoods to virtual vent LB3E)	0.01	0.04
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L040	Emission unit name: Laboratory Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Laboratory Hood - Mixed use - Vents through L040E
Methylene chloride emissions are tracked as virtual vent LB3E for all hoods.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 5/29/1976	Installation date: 5/29/1976	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 850 ACFM

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	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

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 (Total for all hoods to virtual vent LB3E)	0.01	0.04
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 LB3E emissions which are a summation of Sources L001 - L040 (45 CSR 13 R13-2330, 5.4.5.)

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 Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L046	Emission unit name: Battenfield, Demag #5	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Test Part Extruders - Vents through L046E

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/17/1995	Installation date: 6/17/1995	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 61360 samples/year

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
--	--	---

Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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	0.01
Formaldehyde	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Emission factors from research reports are used to determine the emissions from the unit as it produces parts needed for testing of final product prior to release. The facility maintains monthly records of the number and types of samples processed on the equipment, as well as hours of operation. (45 CSR 13 R13-2330, 5.4.4.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L047	Emission unit name: Demag #1, Demag #2	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Test Part Extruders - Vents through L047E

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/17/1995	Installation date: 6/17/1995	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 61360 samples/year

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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	0.01
Formaldehyde	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Emission factors from research reports are used to determine the emissions from the unit as it produces parts needed for testing of final product prior to release. The facility maintains monthly records of the number and types of samples processed on the equipment, as well as hours of operation. (45 CSR 13 R13-2330, 5.4.4.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L048	Emission unit name: Demag#3, Demag#4, Weatherometers	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Test Part Extruders - Vents through L048E

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/17/1995	Installation date: 6/17/1995	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 61360 samples/year

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
--	--	---

Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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	0.01
Formaldehyde	0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Emission factors from research reports are used to determine the emissions from the unit as it produces parts needed for testing of final product prior to release. The facility maintains monthly records of the number and types of samples processed on the equipment, as well as hours of operation. (45 CSR 13 R13-2330, 5.4.4.)</p>		

Applicable Requirements

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

See Attachment I 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 permits R13-3574 and R13-2330.

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

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

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: L050	Emission unit name: Motan Conveyor System	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.; for engines, please indicate compression or spark ignition, lean or rich, four or two stroke, non-emergency or emergency, certified or not certified, as applicable)

Motan Conveyor System - Vents through L050E

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 6/17/1995	Installation date: 6/17/1995	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks – gallons, boilers – MMBtu/hr, engines - hp): 153320 samples/year

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
--	--	---

Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	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

<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)	0.1	0.14
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

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

Emission factors from research reports are used to determine the emissions from the unit as it produces parts needed for testing of final product prior to release. The facility maintains monthly records of the number and types of samples processed on the equipment, as well as hours of operation. (45 CSR 13 R13-2330, 5.4.4.)

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 Attachment I 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 permits R13-3574 and R13-2330.

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

The Development and Laboratory Service does not require a Compliance Plan for this Title V renewal Application for DLS (Part 13 of 14) of the Celanese - 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 WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
 - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
 - d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
 - e. The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

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

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

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

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

3) ^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, RATA, 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:

Emissions Summary for Development Laboratory Services

Plant-wide Emissions Summary [Tons per Year]		
Criteria Pollutants	Potential Emissions	2022 Actual Emissions
Carbon Monoxide (CO)	0.0645	0.0006
Nitrogen Oxides (NO _x)	0.0096	0.0003
Lead (Pb)	0.0	0.0
Particulate Matter (PM _{2.5})	0.0	0.0155
Particulate Matter (PM ₁₀)	0.98	0.0155
Total Particulate Matter (TSP)	0.98	0.0155
Sulfur Dioxide (SO ₂)	0.0	0.0
Volatile Organic Compounds (VOC)	0.541	0.0102
<i>PM₁₀ is a component of TSP.</i>		
Hazardous Air Pollutants	Potential Emissions	2017 Actual Emissions
Formaldehyde	0.00165	0.00009
HCl	0.05	0.00007
Methanol	0.0184	0.0006
Methylene Chloride	0.04	0.0012
Toluene	0.0414	0.0
Phenol	0.00935	0.00004
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	2022 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.

APPLICABLE REQUIREMENTS SUMMARY:

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

Federal and State:	45CSR6	Open burning prohibited.
	45CSR7	Particulate matter and opacity limits for manufacturing sources.
	45CSR11	Standby plans for emergency episodes.
	45CSR13	Preconstruction permits
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
45CSR30	Operating permit requirement.	
	40 C.F.R. Part 61	Asbestos inspection and removal
State Only:	45CSR4	No objectionable odors.
	45CSR§21-40	Control of VOC Emissions
	45CSR27	Best Available Technology (BAT) for HAPs

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>)
R13-2330	09/29/2017	NA
R13-3574	09/26/2022	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 Requirements

45CSR§§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, and L050 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, and L048 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, and L050 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 blower that uses oil and is part of L050 Motan conveyor system with both units sharing the same emission point. 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, and L050) [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

(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 L050)
[45CSR§7-4.1.]

45CSR§7-5.1

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

3.1.15. The permitted sources identified in Attachment A of permit R13-3574 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 R13-3574, are also demonstrated. The applicable requirements set forth by 45CSR27 shall include, but not be limited to, the following: [45CSR13, R13-3574, 4.1.3.]

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 5.1.1. of permit R13-2330.

Table 5.1.1. of R13-2330

Emission Point	Source(s)	Pollutant	Emission Rates	
			Hourly (pph)	Annual (tpy)
L046E	L046	CO Particulate VOC Formaldehyde Methanol	0.1	0.1
L047E	L047		0.8	3.2
L048E	L048		0.1	0.4
L050E	L050		0.01	0.01
			0.01	0.01

[45CSR13, R13-2330, 5.1.1.]

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, R13-2330, 5.1.2.]

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 R13-3574, and any amendments thereto. [45CSR13, R13-2330, 5.1.3.]

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 R13-3574, and any amendments thereto. **[45CSR13, R13-2330, 5.1.4.]**

5.2. Limitations and Standards

[Reserved]

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, R13-2330, 5.4.4.]**

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, R13-2330, 5.4.5.]**