# WEST VIRGINIA AIR QUALITY BOARD CHARLESTON, WEST VIRGINIA

JEFFERSON COUNTY FOUNDATION, KAREN FREER, GAVIN PERRY, SHARON WILT, Appellants,

REC'D 12:18.2023 BY KMD, CLERK. AQB

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v.

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Appeal No. 23-02-AQB

LAURA M. CROWDER, Director, West Virginia Department of Environmental Protection, Division of Air Quality, Appellee.

#### **NOTICE OF APPEAL**

Action Complained Of: The Appellants, Jefferson County Foundation, Inc., Karen Freer, Gavin Perry, and Sharon Wilt, by and through undersigned counsel, respectfully represent that they have been aggrieved by the issuance of the Modification Permit No. R14-0037A ("Modified Permit") to Roxul USA, Inc. for the Rockwool Manufacturing Facility (Identification No. 037-00108) ("Rockwool") in Jefferson County, West Virginia, allowing it to emit air pollutants, by the West Virginia Department of Environmental Protection ("DEP"), acting through its Division Air Quality, on November 16, 2023 (See Modified Permit attached hereto as Exhibit A.)

Appellants assert that the Modified Permit was issued by the DEP in violation of the certain applicable state statutes, rules, and regulations it is required to follow in implementing the federal Clean Air Act ("CAA" or "Act") permitting standards, including those in West Virginia's federally-approved and federally-enforceable CAA state implementation plan ("SIP"). In doing so it acted unreasonably, arbitrarily and capriciously, and/or exceeded its authority by intentionally disregarding the environmental laws of the state. As a result, the Modified Permit

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was issued to Rockwool without meeting the states' legally binding requirements. The decision denied the Appellants and other citizens of Jefferson County their rights under the CAA and the West Virginia SIP to be protected from air pollution from major stationary sources of such pollution. These actions have denied the Appellants the ability to protect the health and integrity of the air quality in Jefferson County upon which the health and welfare of the community relies.

Specifically, the issuance of the Modified Permit that classified Rockwool as a minor source of air pollution fails to include emission resulting from the imposition of strict pollution controls and associated monitoring, recordkeeping, reporting, and other requirements that apply to major stationary sources of pollution under the prevention of significant deterioration ("PSD") permit program of the CAA and the West Virginia SIP, and thus poses substantive risks to the air quality of Jefferson County.

**Relief Requested:** The Appellants therefore pray that this matter be reviewed by the Board at a hearing at which Appellants will present evidence in support of the Specific Objections to the Modified Permit; and, that following the hearing, the Board grant the following relief:

The DEP should be ordered to withdraw the current Modified Permit in its entirety and require Rockwool to reapply for a modified PSD permit, in which all of the errors, omissions, inaccurate and incomplete information is provided to the DEP for full evaluation in compliance with the requirements of the applicable statutes, regulations and requirements. This process would include another period of public comment and review.

In the alternative, Appellants request the DEP be mandated to withdraw the current Registration, and require Rockwool to submit a new application for a minor source permit modification, providing true, accurate and complete information on each of the Specific

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Objections that the AQB determines was inappropriately accepted by the DEP. This process would include another period of public comment and review.

Specific Objections: The Specific Objections to the DEP's action, including questions of

fact and law to be determined by the Board, are set forth in detail in separate numbered

paragraphs and attached hereto, and incorporated herein, as Exhibit C.

Respectfully Submitted,

Jefferson County Foundation, Karen Freer, Gavin Perry, Sharon Wilt,

By Counsel,

Andrew C. Earley (WVSB #14055) Fair Shake Environmental Legal Services 232 Capitol Street, Ste. 14 Charleston, WV 25301 aearley@fairshake-els.org (234) 255-5397

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# WEST VIRGINIA AIR QUALITY BOARD CHARLESTON, WEST VIRGINIA

# JEFFERSON COUNTY FOUNDATION, KAREN FREER, GAVIN PERRY, SHARON WILT, Appellants,

v.

Appeal No. <u>23-02-40B</u>

LAURA M. CROWDER, Director, West Virginia Department of Environmental Protection, Division of Air Quality, Appellee.

#### **Certificate of Service**

I, Andrew Earley, do hereby certify that I served the original and eight (8) true copies of the foregoing Notice of Appeal and Exhibits on the Board by personal service on December 18, 2023. I also served one true copy of the same on the registered agent of permittee Roxul USA, Inc., as listed on the West Virginia Secretary of State's website, by first class U.S. Mail, postage pre-paid, on December 18, 2023

Counsel for Appellants

Kenna M. DeRaimo Clerk of the Board West Virginia Air Quality Board 601 57th Street, SE Charleston, WV 25304

Registered Agent for Roxul USA, Inc. Kenneth Cammarato 4594 Cayce Rd Byhalia, MS 38611

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Ex. A

West Virginia Department of Environmental Protection Harold D. Ward Cabinet Secretary

# **Modification Permit**



# R14-0037A

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.), 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation, and 45 C.S.R. 14 - Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

> Issued to: ROXUL USA, Inc. RAN Facility 037-00108

Laura M. Crowder

Laura M. Crowder Director, Division of Air Quality Laura M. Crowder

Issued: November 16, 2023

This permit will supercede and replace permit R14-0037 issued on April 30, 2018

Facility Location:	Ranson, Jefferson County, West Virginia
Mailing Address:	665 Northport Ave.
	Ranson, WV 25430
Facility Description:	Mineral Wool Manufacturing Facility
SIC/NAICS Code:	3296/327993
UTM Coordinates:	Easting: 252.06 km Northing: 4,362.62 km Zone: 18
Latitude/Longitude:	39.37754, -77.87844
Permit Type:	Modification
Desc. of Change:	Modification to make several changes to the process, including removal of coal as a fuel source,
	reallocation of CO emissions from IMF01 to HE01, removal of the Rockfon line, removal of
	cooling towers, modifications to the sizing of combustion sources, removal of product marking
	and a slight reduction in hours of operation of the mineral wool production facility and fleece
	application vents.

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.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

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# 1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity <sup>(1)</sup>	Control Device <sup>(2)</sup>			
Raw Material Handling								
IMF11	IMF11	Conveyor Transfer Point	2021	1,137 scfm (1,800 Nm <sup>3</sup> /hr)	IMF11-FF			
B215	B215	Raw Material Loading Hopper	2021	562 ton/day	PE			
IMF12	IMF12	Conveyor Transfer Point	2021	716 ton/day	FE			
IMF14	IMF14	Raw Material Reject Stockpile	2021	10m <sup>2</sup>	PE			
IMF15	IMF15	Conveyor Transfer Point	2021	716 ton/day	PE			
IMF16	IMF16	Conveyor Transfer Point	2021	716 ton/day	FE			
IMF21	IMF21	Charging Building Vacuum Cleaning Filter	2021	316 scfm (500 Nm <sup>3</sup> /hr)	IMF21-FF			
RM_REJ	RM_REJ	Raw Material Reject Bin	2021	6 ton/day	PE			
B170	170B170Melting Furnace Portable Crusher & Storage20211,800 ton/day		PE					
B210/211	B210/211	Raw Material Storage - Loading 2021 716 ton/day		PE				
RMS	RMS	Raw Material Open Storage & Delivery20215,382 ft² (500m²)		PE				
IMF17	IMF17	B220 Material Handling	2021	716 ton/day	FE			
		Mineral Wool Li	ne	11				
IMF01	IMF01	Melting Furnace	2021	21,414 scfm	IMF01-BH De-NO <sub>x</sub> De-SO <sub>x</sub>			
IMF07	IMF07	Filter Fines Day Silo	2021	790 scfm (1,250 Nm³/hr)	IMF07A-FF			
IMF08	IMF08	Sorbent Silo	2021	758 scfm (1,200 Nm³/hr)	IMF08-FF			
IMF09	IMF09	9 Spent Sorbent Silo 2021 758 sc		758 scfm (1,200 Nm <sup>3</sup> /hr)	IMF09-FF			
IMF10	IMF10	0 Filter Fines Receiving Silo 2021 758 scfm (1,200 Nm <sup>3</sup> /hr)			IMF10-FF			
IMF24	F24 IMF24 Preheat Burner 2021 5.12 mmBtu/hr (1,500 kW)		None					
СО	HE01	Curing Oven	2021	18,950 scfm	(HE01) CO-AB			

Emission Unit ID	Emission Point ID	Kmission Linit Description		Design Capacity <sup>(1)</sup>	Control Device <sup>(2)</sup>
CO-HD	HE01	Curing Oven Hoods	2021	25,267 scfm (40,000 Nm <sup>3</sup> /hr)	WESP (HE01)
GUT-EX	HE01	Gutter Exhaust	2021	15,792 scfm (25,000 Nm <sup>3</sup> /hr)	WESP (HE01)
SPN	HE01	Spinning Chamber	2021	258,986 scfm (410,000 Nm <sup>3</sup> /hr)	WESP (HE01)
CS	HE01	Cooling Section	2021	50,534 scfm	WESP (HE01)
CM12	CM12	Fleece Application Vent 1	2021	388,500 kg/yr	None
CM13	CM13	Fleece Application Vent 2	2021	388,500 kg/yr	None
CE01	CE01	De-dusting Baghouse	2021	44,217 scfm (70,000 Nm <sup>3</sup> /hr)	CE01-BH
CE02	CE02	Vacuum Cleaning Baghouse202112,633 scfm (20,000 Nm³/hr)		CE02-BH	
DI DI Dry Ice Cleaning		2021	630,000 kg/yr	None	
		Recycling			
CM08	CM08	Recycle Plant Building Vent 3	2021	1,579 scfm (2,500 Nm <sup>3</sup> /hr)	CM08-FF
CM09	СМ09	Recycle Plant Building Vent 4	2021	1,579 scfm (2,500 Nm <sup>3</sup> /hr)	CM09-FF
CM10	CM10	CM10Recycle Plant Building Vent 1202118,950 scfm (30,000 Nm³/hr)		CM10-FF	
CM11	CM11	Recycle Plant Building Vent 2	2021	18,950 scfm (30,000 Nm³/hr)	CM11-FF
		Miscellaneous Emissio	n Units		
CM03	CM03	Natural Gas Boiler 1	2021	4.9 mmBtu/hr (1,462 kW)	None
CM04	CM04	Natural Gas Boiler 2	2021	4.9 mmBtu/hr (1,462 kW)	None
EFP1	EFP1	Emergency Fire Pump Engine	2021	316 hp (236 kw)	None
		Storage Tanks			
TK-DF	TK-DF	Diesel Fuel Tank	2021	1,242 gallons (4.7 m <sup>3</sup> )	None
ТК-ТОЗ	ТК-ТОЗ	Thermal Oil Tank - IMF	2021	5,283 gallons (20 m <sup>3</sup> )	None

# 1.0 Emission Units

## **1.0 Emission Units**

Emission Unit ID	Emission Unit Description		Year Installed	Design Capacity <sup>(1)</sup>	Control Device <sup>(2)</sup>
ТК-ТО4	ТК-ТО4	Thermal Oil Expansion Tank - IMF	2021	1,928 gallons (7.3 m <sup>3</sup> )	None
TK-RS1	TK-RS1	Resin Storage Tank	2021	13,209 gallons (50 m <sup>3</sup> )	None
TK-RS2	TK-RS2	Resin Storage Tank	2021	13,209 gallons (50 m <sup>3</sup> )	None
TK-RS3	TK-RS3	Resin Storage Tank	2021	13,209 gallons (50 m <sup>3</sup> )	None
TK-RS4	TK-RS4	Resin Storage Tank	2021	13,209 gallons (50 m <sup>3</sup> )	None
TK-RS5	TK-RS5	Resin Storage Tank	2021	13,209 gallons (50 m <sup>3</sup> )	None
TK-RS6	TK-RS6	Resin Storage Tank	2021	13,209 gallons (50 m <sup>3</sup> )	None
ТК-СА	TK-CA	Coupling Agent Storage Tank	2021	396 gallons (1.5 m <sup>3</sup> )	None
TK-AD	TK-AD	Additive Storage Tank	2021	396 gallons (1.5 m <sup>3</sup> )	None
TK-BS1	TK-BS1	Binder Storage Container	2021	264 gallons (1 m <sup>3</sup> )	None
TK-BS2	TK-BS2	Binder Storage Container	2021	264 gallons (1 m <sup>3</sup> )	None
TK-BS3	TK-BS3	Binder Storage Container	2021	264 gallons (1 m <sup>3</sup> )	None
TK-DOD	TK-DOD	De-dust Oil Day Tank	2021	264 gallons (1 m <sup>3</sup>	None
TK-ADB1	TK-ADB1	Additive Buffer Tank	2021	396 gallons (1.5 m <sup>3</sup> )	None
TK-ADB2	TK-ADB2	Additive Buffer Tank	2021	132 gallons (0.5 m <sup>3</sup> )	None
TK-GLY	TK-GLY	Glycol Tank	2021	396 gallons (1.5 m <sup>3</sup> )	None

Where air flow rates are listed, it represents the maximum design capacity of the mechanical flow - if applicable
 through the listed particulate matter control device or uncontrolled vent.

(2) AB = Afterburner; BH = Baghouse; FF = Fabric Filter; PE = Partial Enclosure; WESP = Wet Electrostatic Precipitator; FE = Full Enclosure.

# 2.0. General Conditions

#### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

# 2.2. Acronyms

СААА	Clean Air Act Amendments	NSPS	New Source Performance
CBI	Confidential Business	1010	Standards
CDI	Information	РМ	Particulate Matter
CEM	Continuous Emission Monitor	PM <sub>2.5</sub>	Particulate Matter less than
CES	Certified Emission Statement	1112.5	$2.5\mu m$ in diameter
C.F.R. or CFR	Code of Federal Regulations	<b>PM</b> <sub>10</sub>	Particulate Matter less than
CO	Carbon Monoxide		10µm in diameter
C.S.R. or CSR	Codes of State Rules	Ppb	Pounds per Batch
DAQ	Division of Air Quality	pph	Pounds per Hour
DEP	Department of Environmental	ppm	Parts per Million
	Protection	Ppmv or	Parts per million by
dscm	Dry Standard Cubic Meter	ppmv	volume
FOIA	Freedom of Information Act	PSD	Prevention of Significant
НАР	Hazardous Air Pollutant		Deterioration
HON	Hazardous Organic NESHAP	psi	Pounds per Square Inch
HP	Horsepower	SIC	Standard Industrial
lbs/hr	Pounds per Hour		Classification
LDAR	Leak Detection and Repair	SIP	State Implementation Plan
M	Thousand	SO <sub>2</sub>	Sulfur Dioxide
МАСТ	Maximum Achievable	TAP	Toxic Air Pollutant
	Control Technology	ТРҮ	Tons per Year
MDHI	Maximum Design Heat Input	TRS	Total Reduced Sulfur
MM	Million	TSP	Total Suspended Particulate
MMBtu/hr or	Million British Thermal Units	USEPA	United States Environmental
mmbtu/hr	per Hour		Protection Agency
MMCF/hr <i>or</i>	Million Cubic Feet per Hour	UTM	Universal Transverse
mmcf/hr	-		Mercator
NA	Not Applicable	VEE	Visual Emissions Evaluation
NAAQS	National Ambient Air Quality	VOC	Volatile Organic Compounds
	Standards	VOL	Volatile Organic Liquids
NESHAPS	National Emissions Standards		
	for Hazardous Air Pollutants		
NO <sub>x</sub>	Nitrogen Oxides		

#### 2.3. Authority

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation; and
- 2.3.2. 45CSR14 Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration.

# 2.4. Term and Renewal

2.4.1. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

# 2.5. Duty to Comply

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Applications R14-0037 and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to; [45CSR§§13-5.11 and 13-10.3]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein 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.

# 2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

# 2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

#### 2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13. [45CSR§13-4]

#### 2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13. [45CSR\$13-5.4.]

#### 2.10. Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate. [45CSR§13-5.1]

#### 2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.
   [WV Code § 22-5-4(a)(9)]

# 2.12. [Reserved]

#### 2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

# 2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

# 2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

# 2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

# 2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR\$13-10.1]

# 2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

# 2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

#### 3.0. Facility-Wide 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, owner, or operator 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. [40CFR§61.145(b) and 45CSR§34]
- 3.1.4. Odor. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
   [45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. Permanent shutdown. A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown. [45CSR§13-10.5.]
- 3.1.6. Standby plan for reducing emissions. When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.
   [45CSR§11-5.2.]

#### 3.2. Monitoring Requirements

3.2.1. Emission Limit Averaging Time. Unless otherwise specified, compliance with all annual limits shall be based on a rolling twelve month total. A rolling twelve month total shall be the sum of the measured parameter of the previous twelve calendar months. Unless otherwise specified, compliance with all hourly emission limits shall be based on the applicable NAAQS averaging times or, where applicable, as given in any approved performance test method. However, nothing under 3.2.1. requires that continuous performance testing take place for the entire averaging period time frame (e.g., performance testing to show compliance with a PM<sub>10</sub> emission limit is not necessarily required for 24 consecutive hours). The required length of time of a performance test will be determined by th appropriate test method and compliance procedures as approved under a protocol submitted pursuant to 3.3.1(c).

#### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:
  - a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
  - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or -5.4 as applicable.
  - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
  - d. The permittee shall submit a report of the results of the stack test within sixty (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; and,
    - 3. A statement of compliance or noncompliance with each permit or rule condition.

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

# 3.4. Recordkeeping Requirements

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.
- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§4. State-Enforceable only.]

#### 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.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** 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 or by private carrier with postage prepaid to the address(es), or submitted in electronic format by email as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:	If to the US EPA:
Director	Section Chief, USEPA Region III
WVDEP	Enforcement and Compliance Assistance Division
Division of Air Quality	Air Section (3ED21)
601 57th Street, SE	Four Penn Center
Charleston, WV 25304-2345	1600 John F. Kennedy Blvd.
	Philadelphia, PA 19103-2852
DAQ Compliance and Enforcement <sup>1</sup> :	
DEPAirQualityReports@wv.gov	

Table 3.5.3.: Cor	respondence	Addresses
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For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, notice of Compliance Status Reports, Initial Notifications, etc.

#### 3.5.4. Operating Fee.

- 3.5.4.1. In accordance with 45CSR30 Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

#### 4.0. Source-Specific Requirements

#### 4.1. Limitations and Standards

4.1.1. Only those emission units/sources as identified in Table 1.0, with the exception of any *de minimis* sources as identified under Table 45-13B of 45CSR13, are authorized at the permitted facility by this permit. In accordance with the information filed in Permit Applications R14-0037 and R14-0037A, the emission units/sources identified under Table 1.0 of this permit shall be installed, maintained, and operated so as to minimize any fugitive escape of pollutants, shall not exceed the listed maximum design capacities, shall use the specified control devices, and comply with any other information provided under Table 1.0.

#### 4.1.2. Material Handling Operations

The handling of raw materials used in the production of mineral wool (including but not limited to igneous rocks, slags, dolomite/limestone, and mineral additives), recycling operations, and all other operations involved in the handling or processing of friable materials with a potential of producing particulate matter emissions, shall be in accordance with the following requirements:

a. The permittee shall not exceed the specified maximum design capacities of the following operations:

Parameter	Limit	Units
Raw Materials <sup>(1)</sup>	716 <sup>(2)</sup> (650)	Ton/Day (Tonnc/Day)
Portable Melt Crushing	<150 (<136)	TPH (Tonne/Hour)

#### Table 4.1.2(a): Maximum Design Capacities

(1) Rock, Slag, and Minerals

(2) As based on the Charging Building (B220) Conveyer Belt.

b. The permittee shall not exceed the specified maximum annual throughputs or hours of operation of the following operations:

#### Table 4.1.2(b): Maximum Annual Throughputs

Parameter	Limit	Units
Portable Melt Crushing	540	Hours of Operation

c. The permittee shall not exceed the maximum emission limits for the specified emission points given in the following tables:

Emission Point ID	Source Description	Filter Outlet (gr/dscf) <sup>(1)</sup>	Pollutant <sup>(2)</sup>	PPH <sup>(3)</sup>	TP
	Filter Fines Day	0.001	PM <sub>2.5</sub>	0.01	0.0
IMF07	Silo	0.002	PM/PM <sub>10</sub>	0.01	0.0
D (EQ.)	0.1	0.001	PM <sub>2.5</sub>	0.01	0.0
IMF08	Sorbent Silo	0.002	PM/PM <sub>10</sub>	0.01	0.0
D (EAA		0.001	PM <sub>2.5</sub>	0.01	0.0
IMF09	Spent Sorbent Silo	0.002	PM/PM <sub>10</sub>	0.01	0.0
D (E10	Filter Fines Receiving	0.001	PM <sub>2.5</sub>	0.01	0.0
IMF10	Silo	0.002	PM/PM <sub>10</sub>	0.01	0.0
DIE	Conveyer TP	0.001	PM <sub>2.5</sub>	0.01	0.0
IMF11	(B215 to B220)	0.002	PM/PM <sub>10</sub>	0.01	0.0
	Conveyer TP	0.001	PM <sub>2.5</sub> /PM <sub>10</sub>	0.01	0.0
IMF12	(B210 to B220)	0.002	PM	0.02	0.0
IMF14	Raw Material Reject Stockpile	0.001	PM <sub>2.5</sub>	0.01	0.0
		0.002	PM/PM <sub>10</sub>	0.01	0.0
	Conveyer TP	0.001	PM <sub>2.5</sub> /PM <sub>10</sub>	0.01	0.0
IMF15	(B220 No. 2)	0.002	PM	0.02	0.08
IMF16	Conveyer TP	0.001	PM <sub>2.5</sub> /PM <sub>10</sub>	0.01	0.02
	(B220 to B300)	0.002	PM	0.02	0.0
			PM <sub>2.5</sub>	0.13	0.56
IMF17	B220 Material Handling	n/a <sup>(5)</sup>	PM <sub>10</sub>	0.14	0.6
			РМ	0.34	1.49
D (FOI	Charging Building	0.001	PM <sub>2.5</sub>	0.00	0.0
IMF21	Vacuum Cleaning	0.002	PM/PM <sub>10</sub>	0.01	0.0
		0.0020	PM <sub>10</sub> /PM <sub>2.5</sub>	0.21	0.94
CE01	De-Dusting Baghouse	0.0041	PM	0.21	0.94
		n/a	Mineral Fiber	0.21	0.94
		0.0020	PM <sub>10</sub> /PM <sub>2.5</sub>	0.22	0.93
CE02	Vacuum Cleaning Baghouse	0.0041	PM	0.44	1.85
	Ŭ	n/a	Mineral Fiber	0.22	0.93

(1) British Units

C) 100	Recycle Building Vent 3	0.002	PM <sub>2.5</sub>	0.03	0.12
CM08		0.004	PM/PM <sub>10</sub>	0.06	0.24
C1 (00	Recycle Building Vent 4	0.002	PM <sub>2.5</sub>	0.03	0.12
СМ09		0.004	PM/PM <sub>10</sub>	0.06	0.24
C) (10	Recycle Building Vent 1	0.002	PM <sub>2.5</sub>	0.33	1.45
CM10		0.004	PM/PM <sub>10</sub>	0.66	2.90
CM11	Recycle Building Vent 2	0.002	PM <sub>2,5</sub>	0.33	1.45
		0.004	PM/PM <sub>10</sub>	0.66	2.90

(1) gr/dscf = grains/dry standard cubic feet.

(2) Particulate Matter limits are filterable only. With the exception of CE01 and CE02, PM/PM<sub>10</sub> limits are the same.

- (3) Hourly emission limits are based on a 24-hour average.
- (5) This is an uncontrolled building opening.

#### (2) Metric Units

#### Table 4.1.2(c)(2): Material Handling Operations Stack Emission Limits in Metric Units

Emission Point ID	Source Description	Filter Outlet (mg/Nm <sup>3</sup> ) <sup>(1)</sup>	Pollutant <sup>(2)</sup>	kg/hr <sup>(3)</sup>	tonne/yr
DALEO7	Filter Fines Day	2.5	PM <sub>2.5</sub>	0.01	0.01
IMF07	Silo	5	PM/PM <sub>10</sub>	0.01	0.01
IN (FOG	0.1	2.5	PM <sub>2.5</sub>	0.01	0.03
IMF08	Sorbent Silo	5	PM/PM <sub>10</sub>	0.01	0.01         0.01           0.01         0.01           0.01         0.01           0.01         0.03           0.01         0.03           0.01         0.05           0.01         0.03           0.01         0.03           0.01         0.05           0.01         0.05           0.01         0.05           0.01         0.05           0.01         0.05           0.01         0.05           0.01         0.05           0.01         0.06           0.01         0.01           0.01         0.01
D (EQO		2.5	PM <sub>2.5</sub>	0.01	0.03
IMF09	Spent Sorbent Silo	5	PM/PM <sub>10</sub>	0.01	0.05
	Filter Fines	2.5	PM <sub>2.5</sub>	0.01	0.03
IMF10	Receiving Silo	5	PM/PM <sub>10</sub>	0.01	0.05
	Conveyer TP	2.5	PM <sub>2.5</sub>	0.01	0.01
IMF11	(B215 to B220)	5	PM/PM <sub>10</sub>	0.01	0.05
D (E12	Conveyer TP	2.5	PM <sub>2.5</sub> /PM <sub>10</sub>	0.01	0.02
IMF12	(B210 to B220)	5	РМ	0.01	0.06
D (E14	Raw Material Reject	2.5	PM <sub>2.5</sub>	0.01	0.01
IMF14	Stockpile	5	PM/PM <sub>10</sub>	0.01	0.01
IMF15	Conveyer TP (B220 No. 2)	2.5	PM <sub>2.5</sub> /PM <sub>10</sub>	0.01	0.03

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	W	V	ith		
		5	PM	0.01	0.07
IMF16	Conveyer TP	2.5	PM <sub>2.5</sub> /PM <sub>10</sub>	0.01	0.02
	(B220 to B300)	5	PM	0.01	0.06
			PM <sub>2.5</sub>	0.12	0.51
IMF17	B220 Material Handling	n/a <sup>(5)</sup>	PM <sub>10</sub>	0.13	0.55
			РМ	0.31	1.35
D (E31	Charging Building	2.5	PM <sub>2.5</sub>	0.01	0.01
IMF21	Vacuum Cleaning	5	PM/PM <sub>10</sub>	0.01	0.02
		5	PM <sub>10</sub> /PM <sub>2.5</sub>	0.10	0.85
CE01	De-Dusting	10	PM	0.10	0.85
CEUI	Baghouse	n/a	Mineral Fiber	0.10	0.85
	Vacuum Cleaning	5	PM <sub>10</sub> /PM <sub>2.5</sub>	0.10	0.84
CE02		10	PM	0.20	1.68
CLUZ	Baghouse	n/a	Mineral Fiber	0.10	0.84
	Recycle Building	5	PM <sub>2.5</sub>	0.01	0.11
CM08	Vent 3	10	PM/PM <sub>10</sub>	0.03	0.22
<i>C</i> 1 <i>K</i> 00	Recycle Building	5	PM <sub>2.5</sub>	0.01	0.11
CM09	Vent 4	10	PM/PM <sub>10</sub>	0.03	0.22
01410	Recycle Building	5	PM <sub>2.5</sub>	0.15	1.31
CM10	Vent 1	10	PM/PM <sub>10</sub>	0.30	2.63
CMU	Recycle Building	5	PM <sub>2.5</sub>	0.15	1.31
CM11	Vent 2	10	PM/PM <sub>10</sub>	0.30	2.63

(1)  $mg/Nm^3 = milligrams/cubic meter.$ 

(2) Particulate Matter limits are filterable only. With the exception of CE01 and CE02,  $PM/PM_{10}$  limits are the same.

(3) Hourly emission limits are based on a 24-hour average.

(5) This is an uncontrolled building opening.

- d. The permittee shall not exceed the maximum emission limits and shall utilize the control methods for the specified fugitive emission sources given in the following tables:
  - (1) British Units

Emission Unit ID	Source Description	Control Technology	Pollutant <sup>(1)</sup>	PPH <sup>(2)</sup>	ТРҮ
Drop into Pay	Drop into Raw	3-sided	PM <sub>2.5</sub>	0.01	0.01
B215	Material	enclosure	PM <sub>10</sub>	0.01	0.03
	Loading Hopper	w/cover	РМ	0.01	0.06
		PM <sub>2.5</sub>	0.01	0.01	
RMS	RMS Raw Material Outdoor Storage	3-sided enclosure	PM <sub>10</sub>	0.01	0.05
Outdoor Bioluge	Suldoor Bioruge	Unerestare	РМ	0.03	0.11
	Drop into Raw	4-sided rubber drop	PM <sub>2.5</sub>	0.01	0.01
RM_REJ	Material Reject		PM <sub>10</sub>	0.01	0.01
	Collection Bin	guard	PM	0.01	0.01
			PM <sub>2.5</sub>	0.01	0.01
B170	Portable Crusher	3-sided enclosure	PM <sub>10</sub>	0.01	0.02
			РМ	0.01	0.04
		3-sided	PM <sub>2.5</sub>	0.07	0.02
B210/211	RMS Loading	enclosure	PM <sub>10</sub>	0.48	0.13
		w/cover	РМ	1.04	0.28

Table 4.1.2(d)(1): Materia	al Handling Operation	s Fugitive Emission	Limits in British Units

(1) Particulate Matter limits are filterable only.

(2) Hourly emission limits are based on a 24-hour average

# (2) Metric Units

Emission Unit ID	Source Description	Control Technology	Pollutant <sup>(1)</sup>	kg/hr <sup>(2)</sup>	tonne/yr
	Drop into Raw	3-sided	PM <sub>2.5</sub>	0.01	0.09
B215	Material	enclosure	PM <sub>10</sub>	0.01	0.09
	Loading Hopper	w/cover	PM	0.01	0.01         0.09           0.03         0.26
			PM <sub>2.5</sub>	0.01	0.09
RMS	Raw Material Outdoor Storage	3-sided enclosure	PM <sub>10</sub>	0.01	0.09
	e und of storage		PM	0.02	0.18
	Drop into Raw		PM <sub>2.5</sub>	0.01	0.09
RM_REJ	Material Reject	4-sided rubber drop guard	PM <sub>10</sub>	0.01	0.09
	Collection Bin	urop gaura	РМ	0.01	0.09
	Portable Crusher		PM <sub>2.5</sub>	0.01	0.09
B170	(Drop to pit	3-sided enclosure	PM <sub>10</sub>	10	0.09
	waste)	enerosure	PM		0.09
		3-sided	PM <sub>2.5</sub>	0.01	0.09
B210/B211	RMS Loading	enclosure	PM <sub>10</sub>	0.03	0.09 0.09 0.09 0.09 0.18 0.09 0.09 0.09 0.09 0.09 0.09 0.09
		w/cover	PM	0.06	0.53

Table 4.1.2(d)(2): Material Handling	<b>Operations Fugitive Emission Limits in Metric Units</b>
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(1) Particulate Matter limits are filterable only.

(2) Hourly emission limits are based on a 24-hour average

#### e. Melting Furnace Portable Crusher

Emissions from the Melting Furnace Portable Crusher (not including associated storage pile or pit waste drop) shall not exceed the limits given in the following table:

· · ·	ę	
Pollutant <sup>(1)</sup>	PPH <sup>(2)</sup> (kg/hr)	TPY (tonne/yr)
PM <sub>2.5</sub>	0.12 (0.05)	0.03 (0.03)
PM <sub>10</sub>	0.36 (0.16)	0.10 (0.09
PM	0.81 (0.37)	0.22 (0.20)

Table 4.1.2(e): Melting Furnace Portable Crusher Emission Limits

(1) Particulate Matter limits are filterable only.

(2) [Reserved]

f. In addition to the particulate matter controls as required in the Emission Units Table 1.0, the raw material mixer and crusher located in the Charging Building (B220) shall be equipped with fabric filters to control particulate matter emissions from these sources. The maximum outlet grain loading concentration for each of these fabric filters shall not exceed 0.002 gr/dscf (5 mg/Nm<sup>3</sup>)) of filterable PM/PM<sub>10</sub> and 0.001 gr/dscf (2.5 mg/Nm<sup>3</sup>) filterable PM<sub>2.5</sub>;

#### g. Outdoor Material Storage Areas

All outdoor raw material, pit waste, or recycled material storage shall be in accordance with the following:

- The permittee is authorized to operate one (1) raw material stockpile (RMS) that shall not exceed a base of 5,382 ft<sup>2</sup> (500 m<sup>2</sup>) and shall utilize 3-sided enclosures to minimize the potential fugitive emissions of particulate matter from wind erosion and pile activity;
- (2) The permittee is authorized to operate Building 210 and 211 for raw material storage. These buildings shall utilize 3-sided enclosures and a roof to minimize the potential fugitive emissions of particulate matter from wind erosion and pile activity;
- (3) [Reserved]
- (4) The permittee is authorized to operate one (1) recycled material stockpile. The material in this storage area is limited to the slag-like material tapped from the Melting Furnace that is of such a physical nature so as to limit any significant generation of fugitive matter from wind erosion and pile activity;
- (5) The permittee is authorized to operate one (1) pit waste (crushed recycled material) storage area (B170) that shall not exceed a base of 19,375 ft<sup>2</sup> (1,800 m<sup>2</sup>) and shall utilize a 3-sided enclosure to minimize the potential fugitive emissions of particulate matter from wind erosion and pile activity;

- (6) For all storage piles, the permittee shall manage on-pile activity so as to minimize the release of emissions; and
- (7) All storage area enclosures shall be reasonably maintained and any significant holes shall be repaired immediately.

#### h. Haulroads and Mobile Work Areas

Fugitive particulate emissions resulting from use of haulroads and mobile work areas shall be minimized by the following:

- (1) The permittee shall pave, and maintain such pavement, on all haulroads and mobile work areas (including a reasonable shoulder area) within the plant boundary;
- (2) The permittee shall maintain access to a vacuum sweeper truck in good operating condition, and shall utilize same as needed to remove excess dirt and dust from all haulroads and mobile work areas. The haulroads and mobile work areas shall be flushed with water immediately prior to each vacuum sweeping (flushing may be part of vacuum sweeper truck); and
- (3) The permittee shall collect, in a timely fashion, material spilled on haulroads that could become airborne if it dried or were subject to vehicle traffic.

#### i. 45CSR7

The handling of raw materials used in the production of mineral wool shall comply with all applicable requirements of 45CSR7 including, but not limited to, the following:

- (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, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.
   [45CSR§7-3.1]
- (2) The provisions of subsection 3.1 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. [45CSR§7-3.2]
- (3) 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 found at the end of this rule. [45CSR§7-4.1]
- (4) 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]

#### j. 40 CFR 60, Subpart OOO

The non-metallic mineral handling operations (see Permit Applications R14-0037 and R14-0037Afor a complete list of affected sources) prior to the furnace building (B300) are subject to the applicable limitations and standards under 40 CFR 60, Subpart OOO including, but not limited to, the following:

- Affected facilities must meet the stack emission limits and compliance requirements in Table 2 of Subpart OOO within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.8. The requirements in Table 2 of Subpart OOO apply for affected facilities with capture systems used to capture and transport particulate matter to a control device.
   [40 CFR §60.672(a)]
- (2) Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of Subpart OOO within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11. The requirements in Table 3 of Subpart OOO apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.
   [40 CFR §60.672(b)]
- (3) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.
   [40 CFR §60.672(d)]
- (4) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in 40 CFR §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:
  - Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed 7 percent opacity; and
  - (2) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.
     [40 CFR §60.672(e)]
- (5) Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of Subpart OOO but must meet the applicable stack opacity limit and compliance requirements in Table 2 of Subpart OOO. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions. [40 CFR §60.672(f)]
- 4.1.3. Coal shall not be utilized at the facility for any reason.

# 4.1.4. Melting Furnace

The Melting Furnace, identified as IMF01, shall meet the following requirements:

a. The Melting Furnace shall not exceed the emission limits, and shall utilize the specified Technology, as given in the following table:

Pollutant	Limit	Technology	PPH (kg/hr)	TPY (tonne/ yr)
со	n/a	n/a	3.21 <sup>(1)</sup> (1.46)	13.48 (12.23)
NO <sub>x</sub>		Integrated SNCR, Oxy- Fired Burners <sup>(2)</sup>	37.37 <sup>(1)</sup> (16.95)	156.95 (142.38)
PM <sub>2.5(3)</sub>	РРН		2.32 (1.05)	9.73 (8.83)
PM <sub>10(3)</sub>		Baghouse	2.32 (1.05)	9.73 (8.83)
<b>PM</b> <sup>(4)</sup>	0.013 gr/dscf 31 mg/Nm <sup>3</sup>		2.32 (1.05)	.9.73 (8.83)
SO <sub>2</sub>	РРН	Sorbent Injection in the Baghouse	33.63 <sup>(1)</sup> (15.26)	141.25 (128.14)
VOCs		Good Combustion Practices <sup>(5)</sup>	0.31 (0.14)	1.29 (1.17)
H <sub>2</sub> SO <sub>4</sub>		Sorbent Injection in the Baghouse	1.31 (0.60)	5.49 (5.00)
Mineral Fiber			2.32 (1.05)	9.73 (8.83)
HF			0.37 (0.17)	1.55 (1.41)
HCI	n/a	n/a	0.15 (0.07)	0.62 (0.56)
COS			0.37 (0.17)	1.57 (1.42)
Total HAPs			3.43 (1.56)	14.42 (13.08)

Table 4.1.4	(a)•	Melting	Furnace	Emission	Limite
1 auto 4.1.4	a .	wrennig	ruinace	E/III321011	Linnes

(1) Compliance based on a 30-day rolling average.

(2) Integrated SNCR system utilizes ammonia injection to promote a de-NOx reaction to occur. The oxyfuel burners are specially designed to fire with  $O_2$  instead of ambient air.

(3) Includes condensables.

(4) Filterable only.

(5) Good combustion practices include, but are not limited to the following: (1) maintaining a proper

oxidizing atmosphere to control VOC emissions through proper combustion tuning, temperature, and air/fuel mixing and (2) activities such as maintaining operating logs and record-keeping, conducting training, ensuring maintenance knowledge, performing routine and preventive maintenance, conducting burner and control adjustments, monitoring fuel quality, etc. Said activities shall be performed at a frequency in accordance with manufacturer recommendations or good engineering practices.

#### b. 45CSR7

The Melting Furnace shall comply with all applicable requirements of 45CSR7 including, but not limited to, the following:

- 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, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.
   [45CSR§7-3.1]
- (2) The provisions of subsection 3.1 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. [45CSR§7-3.2]
- (3) 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 found at the end of this rule.
   [45CSR§7-4.1]
- (4) Mineral acids shall not be released 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 given in Table 45-7B found at the end of this rule.
   [45CSR§7-4.2]

# c. 45CSR10

The Melting Furnace shall comply with all applicable requirements of 45CSR10 including, but not limited to, the following:

(1) No person shall cause, suffer, allow or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in subdivisions 4.1.a through 4.1.e.
 [45CSR§10-3.1]

#### [45C5Rg10 5.1]

#### d. 40 CFR 63, Subpart DDD

The Melting Furnace shall comply with all applicable requirements of 40 CFR 63, Subpart DDD including, but not limited to, the following:

(1) §63.1178 For cupolas, what standards must I meet?

(i) You must control emissions from each cupola as specified in Table 2 to this subpart.[40 CFR§63.1178(a)]

If your source is a:	And you commenced construction:	Your emission limits are: <sup>1</sup>	And you must comply by: <sup>2</sup>
2. Cupola	After May 8, 1997	0.10 lb PM per ton of melt	June 1, 1999
8. Open-top cupola	After November 25, 2011	3.2 lb of COS per ton melt	July 29, 2015 <sup>4</sup>
10. Cupola using slag as a raw material	After November 25, 2011	0.015 lb of HF per ton melt 0.012 lb of HCl per ton melt.	July 29, 2015 <sup>4</sup>

#### Table 2 to Subpart DDD of Part 63—Emissions Limits and Compliance Dates

(1) The numeric emissions limits do not apply during startup and shutdown.

(2) Existing sources must demonstrate compliance by the compliance dates specified in this table. New sources have 180 days after the applicable compliance date to demonstrate compliance.

(4) Or upon initial startup, whichever is later.

- (ii) You must meet the following operating limits for each cupola: [40 CFR§63.1178(b)]
  - (A) Begin within one hour after the alarm on a bag leak detection system sounds, and complete in a timely manner, corrective actions as specified in your operations, maintenance, and monitoring plan required by §63.1187 of this subpart.
     [40 CFR§63.1178(b)(1)]
  - (B) When the alarm on a bag leak detection system sounds for more than five percent of the total operating time in a six-month reporting period, develop and implement a written quality improvement plan (QIP) consistent with the compliance assurance monitoring requirements of §64.8(b)-(d) of 40 CFR part 64.
     [40 CFR§63.1178(b)(2)]
  - (C) Additionally, on or after the applicable compliance date for each new or reconstructed cupola, you must either:
     [40 CFR§63.1178(b)(3)]
    - (I) Maintain the operating temperature of the incinerator so that the average operating temperature for each three-hour block period never falls below the average temperature established during the performance test, or
       [40 CFR§63.1178(b)(3)(I)]
    - (II) Maintain the percent excess oxygen in the cupola at or above the level established during the performance test. You must determine the percent excess oxygen using the following equation:
       [40 CFR§63.1178(b)(3)(II)]

Percent excess oxygen = ((Oxygen available/Fuel demand for oxygen) - 1) \* 100

Where:

*Percent excess oxygen* = Percentage of excess oxygen present above the stoichiometric balance of 1.00, (%).

I.00 = Ratio of oxygen in a cupola combustion chamber divided by the stoichiometric quantity of oxygen required to obtain complete combustion of fuel.

*Oxygen available* = Quantity of oxygen introduced into the cupola combustion zone. *Fuel demand for oxygen* = Required quantity of oxygen for stoichiometric combustion of the quantity of fuel present.

e. The furnace shall not operate more than 8,400 hours per year. Compliance with this limit shall be based on a rolling 12 month total.

# 4.1.5. Gutter Exhaust, Spinning Chamber, Curing Oven Hoods, Curing Oven, and Cooling Section

The Gutter Exhaust (GUT-EX), Spinning Chamber (SPN), Curing Oven Hoods (CO-HD), Curing Oven (CO), and Cooling Section (CS) shall meet the following requirements:

a. The Gutter Exhaust, Spinning Chamber, Curing Oven Hoods, Curing Oven, and Cooling Section shall not exceed the aggregate emission limits (as emitted from the Wet Electrostatic Precipitator (WESP) stack (HE01)), and each shall utilize the specified Technology as given in the following table:

Table 4.1.5(a): Gutter Exhaust, Spinning Chamber, Curing Oven Hoods, Curing Oven, and
Cooling Section Emission Limits

Pollutant	Limit	Technology	PPH (kg/hr)	TPY (tonne/yr)
со	n/a	n/a	9.82 (4.46)	41.24 (37.41)
NO <sub>x</sub>		LNB, Good Combustion Practices <sup>(1)</sup>	1.57 (0.71)	6.60 (5.99)
PM <sub>2.5(2)</sub>			8.00 (3.64)	33.60 (30.48)
PM <sub>10(2)</sub>	РРН	WESP	8.00 (3.64)	33.60 (30.48)
PM <sup>(3)</sup>			8.00 (3.64)	33.60 (30.48)
SO <sub>2</sub>		Use of Natural Gas	0.01 (4.89e-03)	0.05 (0.04)
VOCs		Afterburner Good Combustion Practices Subpart DDD Compliance <sup>(4)</sup>	44.66 (20.30)	187.55 (170.14)
Phenol			17.05 (7.73)	71.61 (64.96)
Formaldehyde	n/a	Afterburner <sup>(5)</sup>	3.27 (1.48)	13.74 (12.46)
Methanol		Aneroumer	24.34 (11.04)	102.21 (92.72)
Mineral Fiber			12.00 (5.44)	50.39 (45.72)

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Pollutant	Limit	Technology	PPH (kg/hr)	TPY (tonne/yr)
Total HAPs			56.65 (25.70)	237.95 (215.86)

- (1) Good combustion practices include, but are not limited to the following: Proper combustion tuning, temperature, and air/fuel mixing and activities such as maintaining operating logs and record-keeping, conducting training, ensuring maintenance knowledge, performing routine and preventive maintenance, conducting burner and control adjustments, monitoring fuel quality, etc. Said activities shall be performed at a frequency in accordance with manufacturer recommendations or good engineering practices.
- (2) Includes condensables.
- (3) Filterable only.
- (4) Technology: Gutter Exhaust Subpart DDD Compliance, Curing Oven Afterburner/Good Combustion Practices, Spinning Chamber - Subpart DDD Compliance, Curing Oven Hoods -Subpart DDD Compliance.
- (5) Afterburner is not a control device for Mineral Fibers

#### b. 45CSR7

The Gutter Exhaust, Curing Oven Hoods, Curing Oven, and Spinning Chamber shall comply with all applicable requirements of 45CSR7 including, but not limited to, the following:

- 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, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.
   [45CSR§7-3.1]
- (2) The provisions of subsection 3.1 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. [45CSR§7-3.2]
- (3) 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 found at the end of this rule. [45CSR§7-4.1]
- (4) Mineral acids shall not be released 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 given in Table 45-7B found at the end of this rule.

[45CSR§7-4.2]

#### c. 40 CFR 63, Subpart DDD

The Gutter Exhaust, Curing Oven Hoods, Curing Oven, and Spinning Chamber shall comply with all applicable requirements of 40 CFR 63, Subpart DDD including, but not limited to, the following:

# (1) §63.1179 For curing ovens or combined collection/curing operations, what standards must I meet?

(i) You must control emissions from each curing oven or combined collection/curing operations as specified in Table 2 to this subpart.
 [43 CFR§60.1179(a)]

#### Table 2 to Subpart DDD of Part 63-Emissions Limits and Compliance Dates

If your source is a:	And you commenced construction:	Your emission limits are: <sup>1</sup>	And you must comply by: <sup>2</sup>
24. Combined vertical collection/curing operation	After November 25, 2011	<ul><li>2.4 lb of formaldchydc per ton melt</li><li>0.92 lb of methanol per ton melt.</li><li>0.71 lb of phenol per ton melt.</li></ul>	July 29, 2015 <sup>4</sup>

(1) The numeric emissions limits do not apply during startup and shutdown.

(2) Existing sources must demonstrate compliance by the compliance dates specified in this table. New sources have 180 days after the applicable compliance date to demonstrate compliance.

(4) Or upon initial startup, whichever is later.

d. The curing oven and spinning chamber shall not operate more than 8,400 hours per year each. Compliance with this limit shall be based on a rolling 12 month total.

# 4.1.6. Fleece Application

The Fleece Application operations shall meet the following requirements:

- a. The maximum emissions of VOCs and HAPs from the Fleece Application operations each shall not exceed of 3.26 pounds per hour (1.48 kg/hr) and 6.85 TPY (6.22 tonnes/year);
- b. The control technology for the Fleece Application operations is the use of low-VOC coatings and the utilization of Good Work Practices. "Low-VOC coatings" shall mean the monthly average of all coating materials used during fleece application operations shall not exceed 0.016 lb-VOC/lb-coating (0.016 kg-VOC/kg-coating) material as-applied on a monthly average basis. "Good Work Practices" shall mean storing VOC-containing materials in closed tanks or containers, cleaning up spills, and minimizing cleaning with VOC-containing cleaners; and

#### c. 40 CFR 63, Subpart JJJJ

The fleece application operations shall comply with all applicable requirements of 40 CFR 63, Subpart JJJJ including, but not limited to, the following:

#### What emission standards must I meet?

If you own or operate any affected source that is subject to the requirements of this subpart, you must comply with these requirements on and after the compliance dates as specified in §63.3330.
 IAO CEDS (2.2220(c))

[40 CFR§63.3320(a)]

(2) You must limit organic HAP emissions to the level specified in paragraph (b)(1), (2), (3), or
 (4) of this section.
 [40 CFR§63.3320(b)]

- (i) No more than 5 percent of the organic HAP applied for each month (95 percent reduction) at existing affected sources, and no more than 2 percent of the organic HAP applied for each month (98 percent reduction) at new affected sources; or
   [40 CFR§63.3320(b)(1)]
- (ii) No more than 4 percent of the mass of coating materials applied for each month at existing affected sources, and no more than 1.6 percent of the mass of coating materials applied for each month at new affected sources; or
   [40 CFR§63.3320(b)(2)]
- (iii) No more than 20 percent of the mass of coating solids applied for each month at existing affected sources, and no more than 8 percent of the coating solids applied for each month at new affected sources.
   [40 CFR§63.3320(b)(3)]
- (iv) If you use an oxidizer to control organic HAP emissions, operate the oxidizer such that an outlet organic HAP concentration of no greater than 20 parts per million by volume (ppmv) by compound on a dry basis is achieved and the efficiency of the capture system is 100 percent.
   [40 CFR§63.3320(b)(4)]
- (3) You must demonstrate compliance with this subpart by following the procedures in §63.3370.
   [40 CFR§63.3320(c)]
- d. The fleece application process shall not operate more than 4,200 hours per year. Compliance with this limit shall be based on a rolling 12 month total.
- 4.1.7. Any material stored in an enclosure (either partial or full) shall not be stored in such a manner that the height of the material stored exceeds the height of said enclosure.

# 4.1.8. Fuel Burning Units

The Fuel Burning Units, identified as IMF24, CM03, and CM04, shall meet the following requirements:

- a. The MDHI of IMF24 shall not exceed 5.12 mmBtu/hr (1,500 kW), while the MDHI for CM03 and CM04 shall not exceed 4.9 mmbtu/hr each. Additionally, each unit shall not operate for more than 8,400 hours per year. Compliance with this condition shall be determined on a rolling 12 month basis.
- b. IMF 24 shall not exceed the emission limits given in the following table:

Pollutant	Limit	Control Technology	PPH (kg/hr)	TPY (tonne/yr)
со	n/a	n/a	0.42 (0.19)	1.76 (1.60)
NO <sub>x</sub>	60 ppm <sub>v</sub> d @ 3% O <sub>2</sub>	LNB, Good Combustion Practices <sup>(1)</sup>	0.36 (0.16)	1.52 (1.38)

Pollutant	Limit	Control Technology	PPH (kg/hr)	TPY (tonne/yr)
PM <sub>2.5(2)</sub> PM <sub>10(2)</sub> PM <sup>(3)</sup>	РРН	Use of Natural Gas, Good Combustion Practices <sup>(1)</sup>	0.04 (0.02)	0.16 (0.14)
SO <sub>2</sub>		Use of Natural Gas	0.01 (0.01)	0.01 (0.01)
VOCs		Good Combustion Practices <sup>(1)</sup>	0.03 (0.01)	0.12 (0.10)

Boilers CM03 and CM04 shall each not exceed the emission limits given in the following table:

Pollutant	Limit	Control Technology	PPH (kg/hr)	TPY (tonne/yr)
СО	n/a	n/a	0.42 (0.19)	1.76 (1.60)
NO <sub>x</sub>	30 ppm <sub>v</sub> d @ 3% O <sub>2</sub>	LNB, Good Combustion Practices <sup>(1)</sup>	0.36 (0.16)	1.52 (1.38)
PM <sub>2.5(2)</sub> PM <sub>10(2)</sub> PM <sup>(3)</sup>	РРН	Use of Natural Gas, Good Combustion Practices <sup>(1)</sup>	0.04 (0.02)	0.16 (0.14)
SO <sub>2</sub>		Use of Natural Gas	0.01 (0.01)	0.01 (0.01)
VOCs		Good Combustion Practices <sup>(1)</sup>	0.03 (0.01)	0.12 (0.10)

(1) LNB = Low-NO<sub>x</sub> Burning Technology. Good Combustion Practices shall mean activities such as maintaining operating logs and record-keeping, conducting training, ensuring maintenance knowledge, performing routine and preventive maintenance, conducting burner and control adjustments, monitoring fuel quality, etc. Said activities shall be performed at a frequency in accordance with manufacturer recommendations or good engineering practices.

- (2) Includes Condensables.
- (3) Filterable Only.
- c. Annual emissions of the units listed under Table 4.1.8(b) are based on 8,400 hours of operation, and;

#### d. 45CSR2

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

#### [40CSR§2-3.1]

#### 4.1.9. Storage Tanks

Use of the volatile organic liquid (VOL) storage tanks shall be in accordance with the following:

- a. Tank size shall be limited as specified under Table 1.0 of this permit;
- b. The aggregate emissions of VOCs from all storage shall not exceed 0.12 tons/year (0.11 tonnes/yr); and
- c. Material stored shall be as specified and the aggregate annual storage tank throughputs shall not exceed those given in the following table:

Tank ID	Material Stored	Gallons
TK-DF	Diesel	1,242
ТК-ТОЗ	Thermal Oil	5,283
ТК-ТО4	Thermal Oil	1,928
TK-RS1 through TK-RS6	Resin	79 <b>,</b> 254 <sup>(1)</sup>
TK-CA	Coupling Agent Solution	396
TK-AD	Binder Additive	396
TK-BS1 through TK-BS3	Binder Storage	792 <sup>(1)</sup>
TK-DOD	De-Dust Oil	264
TK-ADB1	Additive Buffer	396
TK-ADB2	Additive Buffer	132
TK-GLY	Glycol	396

Table 4.1.9(c): Storage Tanks Throughput Limits

(1) This number represents the aggregate limit for all specified storage tanks.

d. The permittee shall utilize good operating practices in the operation of the storage tanks. Good operating practices shall mean maintaining and operating the storage tanks according to manufacturers recommendations and regularly inspecting the tanks for areas of disrepair or failure that would allow the escape of VOC-containing vapors. Said activities shall be performed at a frequency in accordance with manufacturer recommendations or good engineering practices.

#### 4.1.10. Emergency Fire Pump Engine

The Emergency Fire Pump Engine, identified as EFP1, shall meet the following requirements:

a. The unit shall not exceed 316 horsepower (236 kW), shall be fired only with Ultra-Low Sulfur Diesel (with a maximum sulfur content not to exceed 0.0015%), and shall not operate in excess of 100 hours per year nor 0.5 hours in any 24-hour period during times not defined as emergencies;

b. The maximum emissions from the Emergency Fire Pump Engine shall not exceed the limits given in the following table:

Pollutant	Limit	Control Technology	PPH (kg/hr)	TPY (tonne/yr)
со	n/a	n/a	0.42 (0.19)	0.10 (0.09)
NO <sub>x</sub>	4.0 g/kw-hr		1.78 (0.81)	0.45 (0.41)
PM <sub>2.5(1)</sub> PM <sub>10(1)</sub>	РРН	Subpart IIII Certification, Annual Hrs of Op Limit	0.07 (0.03)	0.02 (0.02)
PM <sup>(2)</sup>	0.20 g/kw-hr		0.07 (0.03)	0.02 (0.01)
SO <sub>2</sub>	DDU	ULSD Fuel Annual Hrs of Op <sup>(3)</sup> Limit	0.01 (0.01)	0.01 (0.01)
VOCs	РРН	Subpart IIII Certification, Annual Hrs of Op <sup>(3)</sup> Limit	0.06 (0.03)	0.01 (0.01)

 Table 4.1.10(b): Emergency Fire Pump Engine Emission Limits

(1) Includes Condensables.

(2) Filterable Only.

(3) Non-emergency hours of operation.

# c. 40 CFR 60, Subpart IIII

The Emergency Fire Pump Engine shall meet all applicable requirements under 40 CFR 60, Subpart IIII including the following:

- Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.
   [40 CFR §60.4205(c)]
- (2) As stated in §§60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines:

# Table 4 to Subpart IIII of Part 60—Emission Standards for Stationary Fire Pump Engines

Maximum Engine Power	Model year(s)	NMHC + NOX	СО	РМ
225≤KW<450 (300≤HP<600)	2009+	4.0(3.0)		0.20(0.15)

# d. 40 CFR 63, Subpart ZZZZ

An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

# [40 CFR §63.6590(c)]

4.1.11. All building doors shall remain closed except as necessary for people or material to enter or exit the building.

# 4.1.12. Control Devices

a. 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 1.0 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§13-5.10]

# b. Inherent SNCR De-NO, System

The permittee shall design and operate the Melting Furnace so as to promote the inherent removal of  $NO_x$  from the exhaust gas stream. The permittee shall maintain a proper temperature profile for  $NO_x$  removal and inject aqueous ammonia as necessary to facilitate the SNCR process. Compliance with 4.1.12(b) shall be determined by showing compliance with the  $NO_x$  emission limits given under Table 4.1.4(a) using the CEMS as required under 4.2.6.

# c. Sorbent Injection

The permittee shall utilize sorbent injection in conjunction with Baghouse IMF-01 so as to reduce the emissions of  $SO_2$ ,  $H_2SO_4$ , HF, and HCl from the Melting Furnace. Compliance with 4.1.12(c) shall be determined by showing compliance with the  $SO_2$  emission limits given under Table 4.1.4(a) using the CEMS as required under 4.2.6.

# d. Baghouse IMF01-BH

Use of Baghouse IMF01-BH shall be in accordance with the following requirements:

(1) The permittee shall monitor the differential pressure drop of IMF01-BH so as to ensure proper continuous operation of the baghouse. The monitoring system shall include an alarm to notify the control room if the differential pressure drop indicates abnormal performance of the unit. The appropriate alarm set-point(s) shall be determined as given under 4.1.12(g).

# (2) 40 CFR 63, Subpart DDD

How do I comply with the particulate matter standards for existing, new, and reconstructed cupolas? To comply with the PM standards, you must meet all of the following: [40 CFR §63.1181]

- (i) Install, adjust, maintain, and continuously operate a bag leak detection system for each fabric filter.
   [40 CFR §63.1181(a)]
- (ii) Do a performance test as specified in §63.1188 of this subpart and show compliance with the PM emission limits while the bag leak detection system is installed, operational, and properly adjusted.
   [40 CFR §63.1181(b)]

- (iii) Begin corrective actions specified in your operations, maintenance, and monitoring plan required by \$63.1187 of this subpart within one hour after the alarm on a bag leak detection system sounds. Complete the corrective actions in a timely manner.
   [40 CFR §63.1181(c)]
- (iv) Develop and implement a written QIP consistent with compliance assurance monitoring requirements of 40 CFR 64.8(b) through (d) when the alarm on a bag leak detection system sounds for more than five percent of the total operating time in a six-month reporting period.
   [40 CFR §63.1181(d)]

# e. Wet Electrostatic Precipitator (WESP)

The operation of the WESP shall be in accordance with the following requirements:

- (1) The permittee shall utilize a WESP, identified as HE01, so as to reduce the particulate matter emissions from the Gutter Exhaust, Spinning Chamber, Curing Oven Hoods, the Afterburner, and the Cooling Section at all times Melting, Spinning, Curing and Cooling operations are ongoing; and
- (2) The permittee shall monitor the secondary voltage and secondary amperage range of the WESP for optimum mitigation of particulate matter emissions from the sources listed under 4.1.12(e)(1). The monitoring system shall include an alarm to notify the control room if the secondary voltage or amperage indicates abnormal performance of the unit. The appropriate alarm set-point(s) shall be determined as given under 4.1.12(g).

# f. Curing Oven Afterburner

The Curing Oven Afterburner, CO-AB, shall operate according to the following requirements:

(1)The Curing Oven Afterburner shall not exceed a burner capacity of 9.86 mmBtu/hr and shall be in operation at all times when the Curing Oven is in operation and is venting VOC-containing vapors;

#### (2) 45CSR6

The Curing Oven Afterburner is subject to 45CSR6. The requirements of 45CSR6 include but are not limited to the following:

(i) The permittee shall not cause, suffer, allow or permit particulate matter to be discharged from the flares into the open air in excess of the quantity determined by use of the following formula:

Emissions (lb/hr) = F x Incinerator Capacity (tons/hr)

Where, the factor, F, is as indicated in Table I below:

Table I: Factor, F, for Determining Maximum Allowable Particulate Emissions

- (ii) No person shall cause, suffer, allow or permit emission of smoke into the atmosphere from any incinerator which is twenty (20%) percent opacity or greater.
   [45CSR6 §4.3]
- (iii) The provisions of paragraph (i) shall not apply to smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up.
   [45CSR6 §4.4]
- (iv) No person shall cause or allow the emission of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.
   [45CSR6 §4.5]
- (v) Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
   [45CSR6 §4.6]
- (vi) Due to unavoidable malfunction of equipment, emissions exceeding those provided for in this rule may be permitted by the Director for periods not to exceed five (5) 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.
  [45CSR6 §8.2]

# (3) 40 CFR 63, Subpart DDD

- (i) How do I comply with the formaldehyde, phenol, and methanol standards for existing, new, and reconstructed combined collection/curing operations? To comply with the formaldehyde, phenol, and methanol standards, you must meet all of the following:
   [40 CFR §63.1183]
  - (A) Install, calibrate, maintain, and operate a device that continuously measures the operating temperature in the firebox of each thermal incinerator.
     [40 CFR §63.1183(a)]
  - (B) Conduct a performance test as specified in §63.1188 while manufacturing the product that requires a binder formulation made with the resin containing the highest free-formaldehyde content specification range. Show compliance with the formaldehyde, phenol, and methanol emissions limits, specified in Table 2 to this subpart, while the device for measuring the control device operating parameter is installed, operational, and properly calibrated. Establish the average operating parameter based on the performance test as specified in §63.1185(a).
    [40 CFR §63.1183(b)]
  - (C) During the performance test that uses the binder formulation made with the resin containing the highest free-formaldehyde content specification range, record the free-formaldehyde content specification range of the resin used, and the formulation of the binder used, including the formaldehyde content and binder specification. [40 CFR §63.1183(c)]

- (D) Following the performance test, monitor and record the free-formaldehyde content of each resin lot and the formulation of each batch of binder used, including the formaldehyde, phenol, and methanol content.
   [40 CFR §63.1183(d)]
- (E) Maintain the free-formaldehyde content of each resin lot and the formaldehyde content of each binder formulation at or below the specification ranges established during the performance test.
   [40 CFR §63.1183(e)]
- (F) Following the performance test, measure and record the average operating temperature of the incinerator as specified in §63.1185(b) of this subpart.
   [40 CFR §63.1183(f)]
- (G) Maintain the operating temperature of the incinerator so that the average operating temperature for each three-hour block period never falls below the average temperature established during the performance test.
   [40 CFR §63.1183(g)]
- (H) Operate and maintain the incinerator as specified in your operations, maintenance, and monitoring plan required by §63.1187 of this subpart.
   [40 CFR §63.1183(h)]
- g. Where statutory requirements (MACT, NSPS) do not specify such points, the determination of appropriate alarm set-points under this section shall be based on data obtained from performance testing, manufacturing recommendations, or operational experience. The permittee shall maintain on-site, and update as necessary, a certified report listing the set-points and the basis for their selection. Any changes to the set-points shall be accompanied by the date of the change and reason for the change. The permittee shall, to the extent reasonably possible, operate the control devices within the operating ranges at all times the associated emission units are in operation and venting emissions. If an alarm occurs, the permittee shall attempt to immediately correct the problem and follow the record-keeping procedures under 4.4.3.

# 4.1.13. Stack Parameters

The emission point stack parameters (Inner Diameter, Emission Point Elevation, and UTM Coordinates) of each source identified under the Emission Units Table 1.0 shall be in accordance with the specifications as given on the Emission Points Data Sheet in the most updated version of Permit Applications R14-0037 and R14-0037A.

# 4.1.14. General Rule Applicability

The permittee shall meet all applicable requirements, including those not specified above, as given under 45CSR2, 45CSR6, 45CSR7, 45CSR10, 40 CFR 60, Subparts OOO and IIII, and 40 CFR 63, Subparts DDD, JJJJ, ZZZZ, and DDDDD. Any final revisions made to the above rules will, where applicable, supercede those specifically cited in this permit.

# 4.2. Monitoring, Compliance Demonstration, Recording and Reporting Requirements

#### 4.2.1. Maximum Design Capacity Compliance

Compliance with the maximum design capacity limitations as given under 4.1. shall be based on a clear and visible boilerplate rating or on product literature, manufacturer's data, or equivalent documentation that shows that the specific emission unit(s) or processing line in question is limited by design to a throughput or production rate that does not exceed the specified value under 4.1.

# 4.2.2. Maximum Design Heat Input Compliance

Compliance with the various combustion unit MDHI limitations as given under 4.1. shall be based on a clear and visible boilerplate rating or on product literature, manufacturer's data, or equivalent documentation that shows that the specific emission unit(s) in question is limited by design to an MDHI that does not exceed the specified value under 4.1.

#### 4.2.3. Material/Production Throughputs

To determine continuous compliance with maximum production, throughputs, and combustion limits given under in 4.1 of the permit, the permittee shall monitor and record the following:

Table 4.2.5. Tachity Quantities infolitored/itecorded			
Quantity Monitored/Recorded	Emission Unit(s)	Measured Units	
Portable Melt Crushing	Portable Melt Crusher	Hours of Operation/year	
Emergency Fire Pump Hours of Operation <sup>(1)</sup>	EFP1	Hours of Operation/Year	
Storage Tank Throughputs	Various	Gallons/year	

Table 4.2.3: Facility Quantities Monitored/Recorded

(1) Strictly for the purposes of compliance with 4.1.10(a), only non-emergency hours of operation are required to be monitored. Subpart IIII, however, requires monitoring of all hours of operation.

#### 4.2.4. Baghouse/Filter Vents

To determine continuous compliance with the filter/baghouse emission limits given under Section 4.1 of the permit, the permittee shall maintain and operate the control devices according to the requirements given under 4.1.12(a). The permittee shall keep a record of all significant maintenance or repair performed on these control devices (changing out bags, replacing filter material, etc.).

4.2.5. To determine continuous compliance with the maximum hours of operations limits of conditions 4.1.4.e, 4.1.5.d and 4.1.6.d of this permit, the permittee shall monitor and record the hours of operations of Furnace IMF01, Spinning Chamber (SPN), Curing Oven (CO) and Fleece Application Operations.

# 4.2.6. Melting Furnace CEMS (IMF01)

In order to show continuous compliance with the CO,  $NO_x$ , and  $SO_2$  emission limits as given under Table 4.1.4(a), the permittee install and operate a Continuous Emissions Monitoring System (CEMS) for monitoring the emissions of CO,  $NO_x$ , and  $SO_2$  from IMF01. The CEMS shall be installed, maintained and operated according to the manufacturers design, specifications, and recommendations, of which a protocol shall be developed by the permittee and approved by the Director prior to operation. The CEMS shall meet the applicable performance specifications required by 40 Part 60, Appendix B, the applicable quality assurance procedures required in 40 CFR Part 60, Appendix F, and the requirements of 40 CFR 60.13. In lieu of the requirements of 40 CFR Part 60, Appendix F, 5.1.1, 5.1.3, and 5.1.4, the permittee may conduct either a Relative Accuracy Audit (RAA) or a Relative Accuracy Test Audit (RATA) on the CEMS at least once every three (3) years. The permittee shall conduct Cylinder Gas Audits (CGA) each calendar quarter during which a RAA or a RATA is not performed. Data recorded by the CEMS shall be kept for a period not less than three (3) years and shall be made available to the Director or his/her representative upon request.

# 4.2.7. Fleece Application Station

To determine continuous compliance with the VOC/HAP emission limits and the low-VOC requirement given under 4.1.6(a) and (b), the permittee shall monitor and record the following:

- a. The monthly and twelve-month rolling total of the amount (in tons) of VOCs/HAPs used in the fleece application process. The amount shall be based on actual material properties (VOC/HAP contents and material densities) and the amount of material used during the applicable time period. The permittee shall assume a 100% volatilization of all VOCs/HAPs used in the fleece application process with no control percentage applied unless granted approval in writing by the Director to use an alternative calculation methodology. The material properties shall be based on applicable vendor data, MSDS, or Certified Product Data Sheets; and
- b. The average monthly as-applied VOC/HAP content (in lb-VOC/lb-coating and lb-HAP/lbcoating) as based on the procedures under 40 CFR 63, Subpart JJJJ, Section §63.3370(a).
- 4.2.8. The permittee shall record the time and date of any "punking" event and shall notify WVDAQ within 48 hours of said event. Notification can be accomplished per condition 3.5.3 of this permit.

# 4.2.9. Ultra Low Sulfur Fuel

For the purposes of demonstrating continuing compliance with the maximum sulfur content limit under 4.1.10(a), the permittee shall, at a minimum of once per calendar year, obtain from the fuel oil supplier a certification of the sulfur content of the fuel combusted in the Emergency Fire Pump Engine. An alternative means of determining compliance with 4.2.10. will be subject to prior approval from the Director.

- 4.2.10. [Reserved]
- 4.2.11. [Reserved]

# 4.2.12. Control Device Monitoring

The permittee shall install, maintain, and operate instrumentation to continuously monitor and record the control device parameters as required under 4.1.12 of this permit including, at a minimum, the following:

Control Device	<b>Control Device ID</b>	Parameter(s)	
Melting Furnace Baghouse	IMF01-BH	Pressure Drop	
WESP WESP		Secondary Voltage Secondary Amperage	
Curing Oven Afterburner	CO-AB	Firebox Temperature <sup>(1)</sup>	

Table 4.2.12: Control Device Parameters Monitored/Recorded

(1) Pursuant to 40 CFR 63, Subpart DDD, §63.1182.

# 4.2.13. Visible Emissions Compliance Demonstrations

Visible emissions Monitoring, Compliance Demonstration, Recording and Reporting shall be in accordance with the following requirements:

#### a. 45CSR2

Upon request by the Secretary, compliance with the visible emission requirements of 3.1 [of 45CSR2] shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Secretary. The Secretary may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of 3.1 [of 45CSR2]. Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control; **[40CSR§2-3.2]** 

#### b. 45CSR6

Compliance with the afterburner opacity requirements given under 4.1.12(f)(2)(i) and (ii) shall be based on the compliance demonstrations required for emission point HE01 as given under 4.2.14(c) and (e);

#### c. 45CSR7

At such reasonable time(s) as the Secretary may designate, compliance with the visible emission requirements of 4.1.2(i), 4.1.3(e), 4.1.4(b), 4.1.5(b), and 4.1.7(f) shall be determined in accordance with the procedures outlined under 45CSR7A;

# d. 40 CFR 60, Subpart OOO

The permittee shall meet all applicable visible emissions Monitoring, Compliance Demonstration, Recording and Reporting requirements as given under 40 CFR 60, Subpart OOO, Sections §60.674 through §60.676;

# e. IMF01, HE01, and CE01.

Emission Points IMF01, HE01, and CE01 are subject to the following visible emissions monitoring and compliance demonstration requirements:

- In order to determine compliance with the opacity limits of 4.1.3(e), 4.1.4(b), 4.1.5(b), and 4.1.7(f) of this permit, the permittee shall conduct visible emission checks and/or opacity monitoring and recordkeeping for Emission Points IMF01, HE01, and CE01 in accordance with the following:
  - (i) The visible emission check shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40CFR Part 60, Appendix A, Method 22 or from the lecture portion of the 40CFR Part 60, Appendix A, Method 9 certification course;
  - (ii) Visible emission checks shall be conducted at least once per calendar month with a maximum of forty-five (45) days between consecutive readings. These checks shall be performed for a sufficient time interval, but no less than one (1) minute, to determine if any visible emissions are present. Each observation must be recorded as either visible emissions observed or no visible emissions observed. Visible emission checks shall be performed during periods of normal facility operation and appropriate weather

conditions;

- (iii) If visible emissions are present at a source(s) the permittee shall perform Method 9 readings to confirm that visible emissions are within the limits of 4.1.10 of this permit. Said Method 9 readings shall be taken as soon as practicable, but within seventy-two (72) hours of the Method 22 emission check; and
- (iv) If, one year of monthly Method 22 readings show that there are no visible emissions, then the frequency of observations can be reduced to quarterly. If, during quarterly checks, visible emissions are observed, then the frequency of observations shall be returned to monthly.
- f. For the purpose of demonstrating compliance with the visible emissions and opacity requirements, the permittee shall maintain records of the visible emission opacity tests and checks. The permittee shall maintain records of all monitoring data required by 4.2.14 documenting the date and time of each visible emission check, the emission point or equipment/ source identification number, the name or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned. The permittee shall also record the general weather conditions (i.e. sunny, approximately 80°F, 6-10 mph NE wind) during the visual emission check(s). Should a visible emission observation be required to be performed per the requirements specified in Method 9, the data records of each observation shall be maintained per the requirements of Method 9. For an emission unit out of service during the evaluation, the record of observation may note "out of service" (O/S) or equivalent; and
- g. Any deviation of the allowable visible emission requirement for any emission source discovered during observation using 40CFR Part 60, Appendix A, Method 9 must be reported in writing to the Director of the DAQ as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.

#### 4.2.14. Baghouse/Fabric Filter Compliance Demonstrations

Unless specifically requested under 4.3.1. or listed in Table 4.3.2., compliance with all baghouse and fabric filter mass emission limits that have outlet grain loading limits shall be based on vendor information or vendor guarantees that show the maximum outlet grain loading emissions from the baghouse/fabric filter is in compliance with the specific limit.

# 4.2.15. Emission Point Map

The permittee shall prepare and maintain an emission point map of the facility. This map shall consist of a diagram of the location and identification of all emission points at the facility that vent to ambient air. A legend shall be prepared with the map that identifies the emission point type and source(s) contributing to that emission point. This map shall be prepared within 180 days of startup and thereafter be updated as necessary to reflect current facility operations. The map(s) shall be retained on-site and be made available to the Director or his/her duly authorized representative upon request.

# 4.3. Performance Testing Requirements

4.3.1. At such reasonable time(s) as the Secretary may designate, in accordance with the provisions of 3.3 of this permit, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in this permit and/or applicable regulations.

# 4.3.2. Emissions Point Performance Testing

Within 12 months of the issuance of this permit, the permittee shall conduct, or have conducted, in accordance with a protocol submitted pursuant to 3.3.1(c), performance tests on the emission units (as emitted from the listed emission points) to show compliance with the specified pollutants as given in the following table:

Emission Unit(s)	Emission Point	Pollutants	Limit
Melting Furnace	IMF01	All Pollutants under Table 4.1.4(a) with the exception of Mineral Fiber, and Total HAPs.	PPH <sup>(2)</sup>
Gutter Exhaust, Spinning Chamber, Curing Oven Hoods, Curing Oven, and Cooling Section	HE01	All Pollutants under Table 4.1.5(a) with the exception of SO <sub>2</sub> , Mineral Fiber, and Total HAPs.	PPH <sup>(2)</sup>
Recycle Building Vent 1	CM10	PM <sub>2.5(1)</sub> , PM <sub>10(1)</sub> , PM <sup>(1)</sup>	PPH gr/dscf

 Table 4.3.2.: Performance Testing Requirements

(1) Filterable Only.

- (2) Results from the required performance testing used to show compliance with the MACT standards (in lb/ton-melt) may be converted and used for compliance with the PPH limits. Compliance with the MACT standards does not necessarily mean compliance with the limits under Table 4.1.4(a).
- 4.3.3 With respect to the performance testing required above under Section 4.3.2, the permittee shall, after the initial performance test, periodically conduct additional performance testing on the specified sources according to the following schedule:

Table 4.3	3.3.: Perform	ance Testing	g Schedule

Test	Test Results	Retesting Frequency
Initial Baseline	<90% of weight emission standard	Once/3 years
Initial Baseline	>90% of weight emission standard	Annual
Annual	Annual after three successive tests indicate mass emission rates <90% of weight emission standard	
Annual	any tests indicates a mass emission rate >90% of weight emission standard	Annual
Once/3 years	any tests indicates a mass emission rate <90% of weight emission standard	Once/3 years
Once/3 years any test indicates a mass emission rate >90% of weight emission standard		Annual

- 4.3.4. Performance testing for pollutants monitored by CEMS (CO,  $NO_x$ , and  $SO_2$  emitted from the Melting Furnace) are not subject to the performance testing schedule given under Table 4.3.4 and any performance testing shall, unless at such other reasonable time(s) as the Secretary may designate, be conducted on a schedule consistent with the required RATA testing.
- 4.3.5. The permittee shall use the test methods specified in Table 4.3.5. unless granted approval in writing by the Director to use an alternative test method in a protocol submitted pursuant to 3.3.1(c).

Pollutant	Test Method <sup>(1)</sup>	
СО	Method 10	
NO <sub>x</sub>	Method 7E	
PM <sub>2.5</sub> (filterable only)	Method 201A	
PM <sub>10</sub> /PM (filterable only)	Method 5	
PM <sub>2.5</sub> /PM <sub>10</sub> (condensable)	Method 202	
SO <sub>2</sub>	Method 6C	
VOCs	Method 18/25A	
COS	Method 15	
HF/HCl	Method 26A	
Formaldehyde Phenol/ Methanol	Method 318	
H <sub>2</sub> SO <sub>4</sub>	Method 8	

### **Table 4.3.5: Performance Test Methods**

(1) All test methods refer to those given under 40 CFR 60, Appendix A

### 4.3.6. 40 CFR 60, Subpart OOO

The permittee shall meet all applicable Performance Testing requirements as given under 40 CFR 60, Subpart A, Section §60.8 and Subpart OOO, Section §60.675.

# 4.3.7. 40 CFR 63, Subpart DDD

The permittee shall meet all applicable Performance Testing requirements as given under 40 CFR 63, Subpart DDD, Sections §63.1188 through §63.1190.

# 4.4. Additional Recordkeeping Requirements

- 4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.
- 4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
- 4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, 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.

# 4.5. Additional Reporting Requirements

- 4.5.1. The permittee shall submit the following information to the DAQ according to the specified schedules:
  - a. The permittee shall submit reports of all 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; and
  - b. The permittee shall submit to the Director on or before March 15, a certification of compliance with all requirements of this permit for the previous calendar year ending on December 31. If, during the previous annual period, the permittee had been out of compliance with any part of this permit, it shall be noted along with the following information: 1) the source/equipment/process that was non-compliant and the specific requirement of this permit that was not met, 2) the date the permitted discovered that the source/ equipment/process was out of compliance, 3) the date the Director was notified, 4) the corrective measures to get the source/equipment/process back into compliance, and 5) the date the source began to operate in compliance. The submission of any non-compliance report shall give no enforcement action immunity to episodes of non-compliance contained therein.

# **CERTIFICATION OF DATA ACCURACY**

	I, the undersigned, hereby certify that, based	on information and be	lief formed after reasonable inquiry,
all information of	contained in the attached		, representing the period
beginning	and ending		, and any supporting
documents appe	ended hereto, is true, accurate, and complete.		
Signature <sup>1</sup> (please use blue ink) =	Responsible Official or Authorized Representative		Date
Name and Title (please print or type)	Name	Title	
Telephone No		Fax No	

<sup>1</sup> This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
  - (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
  - (ii) the delegation of authority to such representative is approved in advance by the Director;
- b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
- d. The designated representative delegated with such authority and approved in advance by the Director.

# WEST VIRGINIA AIR QUALITY BOARD CHARLESTON, WEST VIRGINIA

# JEFFERSON COUNTY FOUNDATION, KAREN FREER, GAVIN PERRY, SHARON WILT, Appellants,

v.

Appeal No.

# LAURA M. CROWDER, Director, West Virginia Department of Environmental Protection, Division of Air Quality, Appellee.

# EXHIBIT C – SPECIFIC OBJECTIONS

# I. The Parties

1. Jefferson County Foundation (hereinafter, "JCF") is a West Virginia based nonprofit corporation organized under Section 501(c)(3) of the Internal Revenue Code, formed for the purpose of supporting and promoting effective and accountable government, sustainable development, and the protection of health, heritage, and the environment in the Eastern Panhandle of West Virginia. JCF's purpose includes protecting the air quality of Jefferson County and preventing unauthorized pollution from impacting the public health and environment of the County. As such, JCF has an interest in and will be affected by the Modification Permit No. R14-0037A ("Modified Permit") issued by the West Virginia Department of Environmental Protection ("DEP") to Roxul USA, Inc. ("Roxul") for the Rockwool Manufacturing Facility (Identification No. 037-00108) ("Rockwool") in Jefferson County, West Virginia. JCF has a primary business address of P.O. Box 460, Ranson, West Virginia, 25438.

2. JCF has a Board of Directors consisting of three (3) members, who all own real property in Jefferson County, West Virginia. One seat is presently vacant. This Appeal is being brought by the

Directors, on behalf of the organization, in both their individual capacities as property owners and organizational capacities as Directors.

3. Ms. Karen Michelle Freer owns real property in Jefferson County, West Virginia, where her property value and health are or may be impacted by the air emissions from Rockwool. Ms. Freer's property is less than one (1) mile from the Rockwool site, where she can see, hear, and smell Rockwool's activities. Her air quality is and will be impacted by the emissions regulated under this permit. Appellant Freer also keeps horses on her property as a business enterprise, and emissions from the facility may harm her business and the use and enjoyment of her land.

4. Mr. Gavin Perry owns real property in Jefferson County, West Virginia, where his property value and health may be impacted by the adverse impacts from Rockwool's emissions. Mr. Perry's property is less than one (1) mile from the Rockwool site, and his air quality is and will be impacted by the emissions regulated under this permit.

5. Ms. Sharon Wilt owns real property in Jefferson County, West Virginia, where her property value and health may be impacted by the adverse impact from Rockwool's emissions. Ms. Wilt's property is located less than one (1) mile from the Rockwool site. Ms. Wilt has experienced significant health issues since the Rockwool site began its operations, and her air quality is and will be impacted by the emissions regulated under this permit.

6. The DEP is a government agency of the State of West Virginia. The challenged permit registration was issued by the DEP's Division of Air Quality, by Laura M. Crowder, Director, and has a primary address of 601 57th Street SE, Charlestown, West Virginia, 25304.

# **II. QUESTIONS OF FACT AND LAW**

A. Whether the DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority when it approved Roxul's application to modify the existing PSD permit to a synthetic minor permit without requiring Roxul to submit sufficient information about the Rockwool facility's Potential to Emit.

B. Whether the DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority when it failed to confirm that Roxul's submitted Potential to Emit calculations were accurate and, as a result, issued a minor source permit to Rockwool that failed to comply with the West Virginia Air Pollution Control Act, the federal Clean Air Act, and state and federal permitting rules.

# **III. Relevant Air Permitting Law**

7. The DEP air permitting rules implementing the federal Clean Air Act require a new stationary source of air emissions (such as Rockwool) that plans to construct and operate in West Virginia to get a pre-construction new source review ("NSR") air permit, where the exact type of NSR permit that is required depends on whether the source's expected emissions exceed certain air pollution thresholds. *See generally* 45 CSR §§ 13 and 14; *see also* 42 U.S.C §§ 7470 *et seq.* and 7503.

8. West Virginia law defines sources that can emit, or have the potential to emit, more than 10 tons per year ("tpy") of specific regulated pollutants to be a "stationary source" of air pollution subject to NSR permitting requirements. 45 CSR § 13 - 2.24.

9. A stationary source that plans to construct a new source in an area that meets all national ambient air quality standards (such as Ranson, West Virginia) is required by the DEP's NSR air permitting rules to get a Prevention of Significant Deterioration ("PSD") permit prior to construction and initial operation if it is a "major stationary source" of air emissions, which for mineral wool production facilities such as Rockwool is defined as "any stationary source which emits, or has the potential to emit, two hundred fifty (250) tons per year or more of any regulated NSR pollutant." 45 CSR § 14 - 2.43.b; *see also* 42 U.S.C § 7479(1).

10. A PSD major source must control emissions through application of the best available control technology ("BACT") emission limit "based on the maximum degree of reduction for each regulated NSR pollutant which would be emitted from any proposed major stationary source or

major modification which the [DEP] Secretary, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant." 45 CSR §§ 14 - 8.2 and 2.12; *see also* 42 U.S.C §§ 7475(a)(4) and 7479(3).

11. In addition to BACT limits, PSD permits for major stationary sources must also meet other requirements, such as conducting air quality modeling and analysis of the facility's emissions on regional air quality and continued monitoring for such impacts. 45 CSR §§ 14 - 4, 10, and 11; *see also* 42 U.S.C § 7475(a)(3) and (7).

12. Under West Virginia law stationary sources that can emit, or have the potential to emit, less than 250 tpy of specific regulated pollutants are not subject to PSD permitting requirements (such as BACT limits and air quality modeling and monitoring). 45 CSR § 13 - 16.3. Such sources are commonly referred to as "minor stationary sources" or "minor sources."

13. The DEP rules require minor stationary sources to obtain a permit to construct, modify, relocate, and operate from the DEP. 45 CSR § 13 - 5.1. Such permits are commonly referred to as a "minor source" permit.<sup>1</sup>

14. West Virginia law does not dictate any specific terms that must be included in a minor source permit, but instead states that the DEP "may impose any reasonable condition," such as "source-specific emission limitations, limits on the hours of operation or production rates, or other

<sup>&</sup>lt;sup>1</sup> See DEP, Air Permitting, Overview *at* https://dep.wv.gov/daq/permitting/Pages/default.aspx (noting that the DEP's air permit program includes permitting "for both minor and major source").

constraints to minimize air pollutant discharges," installation of air pollutant monitoring devices, periodic emissions reporting, and enforcement conditions. 45 CSR § 13 - 5.11.

15. The DEP major stationary source PSD permitting rules define the "potential to emit," or PTE, as "the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed shall be treated as part of its design only if the limitation or the effect it would have on emissions is federally enforceable or is enforceable by the Secretary in any permit and/or consent order issued by the United States Environmental Protection Agency or by the Secretary." 45 CSR § 14 - 2.58; *see also* 40 CFR §§ 51.166(b)(4) and 52.21 (b)(4) (similar PTE definitions in federal rules for the minimum requirements of CAA-compliant state PSD permitting programs and for the federal PSD permitting program).

16. A similar PTE definition is contained in the DEP minor source permitting rules. See 45CSR § 13 - 2.19.

17. The DEP definition of PTE for both major PSD sources and minor sources considers the use of "physical or operational limitation on the capacity of the source" to emit pollution. 45 CSR §§ 13 - 2.19, 14 - 2.58. A minor source air permit that relies on physical or operational limits to reduce a stationary source's PTE of any regulated pollutant below the 250 tpy major source threshold and thus avoid PSD permitting requirements is usually referred to as a "synthetic minor permit."<sup>2</sup>

<sup>2</sup> See DEP, General Permit G70-D, Engineering Evaluation/Fact Sheet (undated), https://dep.wv.gov/daq/permitting/Documents/G70-D%20Final%20Docs/G70-D%20Fact%20Sheet%20v2.pdf ("Synthetic minor' permitting actions would include limitations on physical or operational capacity to remain below major stationary source thresholds (including 45CSR14, 45CSR19, 45CSR30 and 45CSR34)."); EPA, *True Minor Source and Synthetic Minor Source Permits*, https://www.epa.gov/tribal-air/true-minor-source-and-synthetic-minor-sourcepermits. 18. The U.S. Environmental Protection Agency ("EPA") has explained that in order to ensure that stationary sources of air pollution comply with the major stationary source requirements of the Clean Air Act, including PSD permitting requirements, any synthetic minor permit must include sufficient terms and conditions such that the source cannot lawfully exceed the 250 tpy emission threshold and that such terms and conditions must make it possible for regulators (i.e., the DEP and EPA) and the public to determine a facility's compliance with those terms and bring legal action for any noncompliance.<sup>3</sup>

19. The DEP and EPA have recognized that a synthetic minor permit that fails to contain adequate conditions to limit emissions below 250 tpy or a source that does not comply with such conditions is in violation of the CAA major source PSD permitting requirements.<sup>4</sup>

# **IV. Facts and Procedural History**

20. On November 22, 2017, the DEP received an application for a PSD permit from Roxul to construct the Rockwool mineral wool production facility in Ranson, Jefferson County, West Virginia, as required by the NSR permitting requirements of the West Virginia Air Pollution Control Act, the federal Clean Air Act, and the state and federal rules implementing those Acts.
21. On April 30, 2018, the DEP issued Permit to Construct R14-0037 ("PSD Permit") for Rockwool pursuant to the West Virginia Air Pollution Control Act, 45 C.S.R. 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollution, and

<sup>&</sup>lt;sup>3</sup> See In the Matter of Yuhuang Chemical, Inc., Order on Petition No. VI-2015-03 (Aug. 31, 2016), at 13-14, https://www.epa.gov/sites/default/files/2016-09/documents/yuhuang\_response2015\_0.pdf. <sup>4</sup> See Letter from M. Spink, EPA Region 3, to H. Nickel, Hunton & Williams (March 24, 1995), https://www.epa.gov/sites/default/files/2015-07/documents/consol.pdf, at 4 (upholding a DEP decision to require a source to obtain a PSD permit and recognizing that a source with multiple permit terms intended to keep its emissions below the 250 tpy PSD permitting threshold " has been in violation of [PSD] requirements since the time that it first violated" those terms to reduce emissions and "must now submit a new PSD permit application").

45 C.S.R. 14 – Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration.

22. The PSD Permit contained BACT emissions limits that were determined based on the stated intent in Roxul's PSD Application to use both coal and natural gas as fuel sources in the operation of the Rockwool facility, including in the melting furnace, the largest emission-producing unit at the facility.

23. In a letter dated March 4, 2020, while the Rockwool facility was still under construction, Roxul informed the DEP that it planned to start-up operation of the Rockwool facility using only natural gas in the melting furnace.

24. In a letter dated March 11, 2020, the DEP responded to Roxul, acknowledging the planned change to use natural gas only in the Rockwool melting furnace and noting that all terms of the PSD Permit remained in effect.

25. At some point after March 11, 2020, the DEP posted the two letters regarding the planned fuel change to the Rockwool permitting file available on the DEP's website.

26. On July 29, 2020, JCF wrote to the DEP regarding the planned fuel change at the Rockwool facility, stating that:

- a. Rockwool and the DEP needed to re-do the BACT analysis for the PSD Permit using natural gas as the sole fuel source in the melting furnace;
- b. The fuel change represented, at minimum, a Class II administrative change under the DEP permitting rules, which required public notice and comment of the planned modification; and
- c. Rockwool and the DEP needed to provide the public with all redacted information in Roxul's application for the PSD Permit to evaluate the emission limits set as BACT.

JCF's letter was accompanied by more than 170 pages of exhibits, including a more detailed analysis of the claims in the letter and related evidence.

27. On August 5, 2020, the DEP responded to the JCF letter, stating that "[a]fter internal review and consultation with" the EPA, the PSD Permit "is and remains valid for construction and proposed operation of the facility" and that no Administrative Updates to the PSD Permit were issues or warranted. <sup>5</sup>

28. On May 22, 2022, as part of its application for a CAA Title V operating permit, Rockwool informed the DEP that it would be submitting updates to the construction permit "in a separate NSR permitting action in the near future, which will include updates to the air dispersion modeling."

29. On October 3, 2022, the DEP received an application to modify the PSD Permit from Roxul ("October 2022 Application") to reflect seven (7) sets of changes at the Rockwool facility, including the removal of various coal transfer, storage, and preparation equipment from the permit to reflect the fact that the facility "will not fire coal" and remove various coal transfer, storage, and preparation equipment from the permit. The October 2022 Application continued to classify the Rockwool facility as a PSD major source for permitting purposes and included only minimal changes to Rockwool's estimated PTE values (such as only 1.69 tons per year of VOC emission reductions and no change in SO2 emissions), but it did not include updated BACT or air quality modeling analyses. In accordance with state public review requirements in 45 CSR § 13 - 8, Rockwool also published notice in the Spirit of Jefferson newspaper of their application and opportunity to submit public comments to the DEP regarding that application.

<sup>&</sup>lt;sup>5</sup> In the 18-month period following this DEP response, JCF also sought the assistance from the EPA regarding CAA permitting at the Rockwool facility. The EPA ultimately informed JCF that it was not going to question the DEP's permitting decisions at that time and would continue to work with the DEP to ensure Rockwool's CAA compliance.

30. On February 5, 2023, JCF submitted comments to the DEP regarding the October 2022 Application. The comments raised a number of issues concerning the information (or lack thereof) in the application and permit changes requested in it. JCF noted that the application:

- a. failed to request a permit that reflects its planned and on-going operations and the PSD BACT and other permitting requirements that should apply to it; and
- b. lacked required emission data (and other information) necessary to assess whether the modified permit requested would comply with CAA PSD permitting requirements.

JCF's comment letter included more than 30 pages of attachments with more detailed comments on these points, focusing on the fact that Rockwool continued to withhold essential emissions information as confidential business information and failed to provide updated emission figures and accompanying BACT analyses to reflect its decision to use natural gas, instead of coal, as its primary fuel.

31. On May 22, 2023, Roxul submitted a different application to modify the PSD Permit ("May 2023 Application") to reflect more than ten (10) sets of changes at the Rockwool facility, including the removal of coal-related equipment and other changes from the October 2022 Application, as well as new changes to reduce the annual hours of operation for the mineral wool production line (including the melting furnace) and the fleece application vents. Information in the May 2023 Application asserted that these changes – including the operational limits to reduce annual operating hours – resulted in emission reductions and associated PTE changes much greater than those calculated in the October 2022 Application. And for the first time, Roxul asserted that these changes resulted in PTE levels of less than 250 tpy for all regulated NSR pollutants and stated that the resulting modified permit should be a minor source permit instead of a PSD permit. In

accordance with state public review requirements in 45 CSR § 13 - 8, Rockwool also published notice in the Spirit of Jefferson newspaper of their application and opportunity to submit public comments to the DEP regarding that application.

32. On June 30, 2023, JCF submitted public comments on the May 2023 Application to modify Rockwool's PSD Permit. Those comments raised two key issues regarding the application:

- a. Rockwool continued to be subject to major source PSD permitting requirements because the emission estimates in the May 2023 Application could not be confirmed and did not reflect the enforceable potential to emit of the facility, as required under state and federal rules; and
- Any emission estimates in the May 2023 Application should be based on actual data from the Rockwool facility instead of generic emission factors.

JCF also included an attachment with additional detailed comments, including incorporating by reference 12 deficient emission calculation comments raised in JCF's comments on the October 2022 Application were not resolved by the May 2023 Application and additional comments on deficiencies in and lack of information regarding the new PTE emission calculations.

33. On September 6, 2023, the DEP provided public notice of the proposed Modification Permit for the Rockwool facility based on the May 2023 Application, including access to the proposed Modification Permit and the DEP's accompanying Engineering Evaluation/Fact Sheet ("Fact Sheet"). In the proposed Modification Permit and the Fact Sheet, the DEP adopted almost all of the requested permit changes and analyses put forward in Rockwool's May 2023 Application, including the greatly reduced PTE estimates and the conclusion that Rockwool was now a minor stationary source entitled to a minor source permit without BACT limits or other PSD permitting requirements.

34. The DEP held a public meeting in Jefferson County regarding the proposed Modification
Permit on September 19, 2023, which was attended by JCF and many other members of the public.
35. In response to the public meeting, the DEP extended the public comment period on the
proposed Modification Permit to October 23, 2023.

36. On September 26, 2023, the DEP held a virtual meeting to take public comments on the proposed Modification Permit, at which JCF and many other members of the public provided oral comments.

37. On October 20, 2023, JCF submitted written comments to the DEP regarding the proposed Modification Permit for the Rockwool Facility. JCF's October 2023 comments were consistent with comments JCF previously submitted on the May 2023 Application, since the DEP based the proposed permit on that Application, as well as with JCF's prior comments to and other communications with the DEP regarding Rockwool's PSD permitting requirements. JCF's comments asserted that the proposed Modification Permit failed to comply with state and federal air permitting requirements due to the continued lack of required information provided by Rockwool and lack of analysis of the May 2023 Application by the DEP. Specifically, JCF asserted that the proposed Modified Permit and DEP's proposed issuance of it lacked:

- a. Enforceable physical and operational limits including limits on coal as a fuel and limits on annual hours of operations – and related monitoring that were required to limit Rockwool's PTE below major source permitting levels;
- b. Emissions and stack test information necessary to confirm the emission reductions claimed by Rockwool;
- c. Emissions from various Rockwool activities that were not addressed in the PSD
   Permit or the Draft Permit,

 d. The DEP's independent analysis of the Rockwool's Application, including the claimed PTE reductions and accompanying change to minor stationary source status, and

e. Continued application of PSD permitting requirements to the Rockwool facility. JCF's comment letter included more than 29 detailed, individual comments addressing these concerns.

38. On November 16, 2023, the DEP issued Modification Permit R14-0037A ("Modified Permit") for the Rockwool facility pursuant to the West Virginia Air Pollution Control Act, 45 C.S.R. 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollution, and 45 C.S.R. 14 – Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration.

39. The Modified Permit was accompanied by the DEP's Final Determination for the Modification (dated October 31, 2023, and signed on November 1, 2023) and the DEP's Response to Public Comments ("RTPC"; dated November 14, 2023).

# V. Specific Objections

40. Appellants assert that in issuing Rockwool the Modified Permit on November 16, 2023, based on Rockwool's October 2022 and May 2023 Applications, the DEP acted unreasonably, in an arbitrary and capricious manner, and/or exceeded its statutory authority. State and federal laws require the DEP to determine Rockwool's compliance with various statutory and regulatory requirements in finalizing any modifications to an existing air permit and do not give the DEP the authority to ignore relevant legal requirements. The specific objections identified below detail the facts and instances in which the DEP's actions were unreasonable, arbitrary, capricious, and/or in exceedance of its authority and/or did not fulfill its duty and responsibility to comply with state and federal law in order to protect the air quality of Jefferson County and the region from the operation of the Rockwool facility.

A. The DEP unlawfully approved Rockwool's application for a synthetic minor permit because the DEP failed to require Rockwool to submit sufficient information about the PTE calculations in the May 2023 Application to modify the existing PSD Permit as required by 45 CSR § 13 – 5.4.

41. As noted above, the DEP permitting rules only allow minor source permit to be issued to stationary sources with a PTE of less than 250 tpy of certain regulated NSR pollutants, while sources with a PTE of any such pollutant above 250 tpy are subject to PSD permitting requirements. 45 CSR §§ 13 - 16.3 and 14 - 2.43.b. The DEP permitting rules require a permit application to contain "sufficient information" for the DEP "to determine whether the source construction, modification, relocation and operation will be in conformance with" West Virginia air permitting rules, where such information can include facility specifications, maximum emission rates, and emissions control equipment data. 45 CSR § 13 – 5.4. In this case, the information provided in Rockwool's May 2023 Application is not sufficient to confirm that the modifications listed in the Application lead to the claimed reductions of its potential maximum emissions of volatile organic compounds ("VOCs") and total particulate matter ("PM") necessary to avoid PSD permitting requirements. Such deficiencies include:

a. Rockwool's May 2023 Application notes that the requested modifications "reflect an aggregation of changes in equipment sizing, location, and source details," lists more than eleven (11) categories of those changes, and then provides the <u>total</u> emission reductions of each pollutant at the entire facility due to all of those changes. May 2023 Application at PDF page 5. However, nowhere does Rockwool (or the DEP)

explain how each change will lead to specific emission reductions. For example, Rockwool claims that its potential to emit VOC emissions will reduce by over 275 tons per year, from 471.41 tpy under the PSD Permit to 196.18 tpy under the Modified permit, but they do not explain exactly how the eleven (11) categories of changes to the facility and operations noted in their May 2023 Application will lead to that 275 tpy reduction in VOC emissions. Without such information, it is impossible to determine that the PTE estimates in the May 2023 Application are accurate, and thus it is impossible to confirm that Rockwool is not a major stationary source subject to PSD permitting requirements. As a result, the DEP lacked the sufficient information legally required to determine whether the Rockwool facility would conform with West Virginia air permitting rules and thus acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority, in issuing the Permit Modification. 45 CSR § 13 - 5.4.

b. While Rockwool and the DEP noted that emission estimates were based on stack testing at the facility, nothing in the May 2023 Application or the DEP permit record shows that each emission estimate was based on tests performed during times that represented the *maximum* emission capacity for each pollutant, as required by state rules and the federal CAA. 45 CSR §§ 2 - 19 and 14 - 2.58 (PTE is the "maximum" capacity of a source to emit a pollutant) and 40 CFR §§ 51.166(b)(4) and 52.21 (b)(4) (same). JCF's public comments noted that Rockwool and the DEP must be able to show that the stack testing emission information used for determining PTE was collected using a period (1) that was representative of maximum (or "worst case") emissions for each pollutant (likely at or near maximum load for PM, NOx,

SO2, and flow rate, and at much lower loads for VOCs and CO), and (2) in which both mineral wool manufacturing and fleece application were operating. In response, the DEP noted that stack testing was conducted "with production at maximum achievable loads." RTPC at 16. However, stack testing performed at maximum production capacity does not address the requirement of state and federal law (and concerns noted by JCF) that PTE must be calculated based on maximum emission capacity, which can differ based on the pollutant at issue. Because neither the Rockwool May 2023 Application nor the DEP information supporting the Modified Permit show that relevant PTE calculations were made using stack testing at maximum emission capacity, the Modified Permit does not ensure that the PTE calculations and associated emission limits and conditions for this synthetic minor permit comply with state and federal PSD requirements. 45 CSR § 14 - 2.58 and 40 CFR § 51.166(b)(4). Thus, the DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority, by issuing the Permit Modification without requiring Rockwool to submit data reflecting its true PTE.

B. The DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority when it failed to confirm that the PTE calculations supplied by Rockwool were correct and, as a result, issued a synthetic minor permit to Rockwool that failed to comply with the West Virginia Air Pollution Control Act, the federal Clean Air Act, and state and federal permitting rules.

42. The DEP permitting rules specify that the Secretary shall deny a permit if the proposed "construction, modification, registration or modification will violate applicable emission standards,...or be inconsistent with the intent and purpose" of the DEP permitting rules and the

West Virginia Air Pollution Control Act. 45 CSR § 13 - 5.7. While JCF identified many problems with the PTE information supplied in Rockwool's May 2023 Application, including the inability to assign specific emission calculations to specific changes at the facility as noted above, the DEP asserts that "[a]scribing each change to a particular change in process isn't necessary" because it can correctly classify the facility as major or non-major so long as the "new emission limits are accurate." RTPC at 14. However, there are multiple ways in which it is impossible to determine whether the emissions limits are accurate based on the information available. For example:

a. The DEP acknowledges that the emission limits and PTE estimates are based on application of "engineering estimates" to stack test data that Roxul did not provide in its application or otherwise supply to DEP. RTPC at 4. Application of the major source PSD permitting program to sources with PTE values exceeding 250 tpy is a requirement of the DEP permitting rules. 45 CSR §§ 13 - 16.3 and 14 - 2.43.b. It is not clear how the DEP can determine, as required by law, which applicable permitting requirements – major PSD or minor source – apply to the Rockwool facility and the modifications requested in the May 2023 Application, much less confirm that the Modified Permit complies with those standards, when the DEP's final permit decision is based in large part on emission limits and resulting PTE values calculated using engineering estimates and analyses that are not part of the permit record. 45 CSR § 13 - 5.7. Thus, the DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority, by issuing the Modified Permit without requesting and undertaking an independent confirmation of the engineering estimates, PTE values, and related analyses that are required to determine whether

the Modified Permit complies with state permitting rules and the West Virginia Air Pollution Control Act.

- b. The DEP explains that it determined whether the proposed emission limits were reasonable by comparing them to existing stack test data. RTPC at 4. However, as noted above, the May 2023 Application did not show that those stack tests were taken at times that would lead to the *maximum* emission capacity for each pollutant emitted from the Rockwool facility, as required under state and federal law. 45 CSR § 14 2.58 and 40 CFR § 51.166(b)(4). Because the available stack test data was insufficient to determine the maximum emission capacity for each pollutant emitted from the Rockwool facility, it was unreasonable for the DEP to rely on that data to find that the proposed emission limits were reasonable, and that Rockwool's resulting PTE calculations were below PSD major source permitting thresholds. Thus, the DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority by issuing a minor source Modified Permit that did not contain the major source PSD permitting requirements (such as BACT limits based on use of natural gas and updated air quality modeling and monitoring).
- c. As shown above, the May 2023 Application did not contain "sufficient information" for the DEP to determine whether the requested permit changes would comply with state and federal air permitting rules, as required by 45 CSR § 13 5.4. Thus, the DEP acted unreasonably, arbitrarily and capriciously, and/or in exceedance of its authority in determining that the May 2023 Application was complete and relying on it to issue the Modified Permit.

# VI. Conclusion

43. Because the DEP did not require Rockwool to submit data reflecting its true PTE, have the emission estimates Rockwool applied to their stack testing data, and confirm that stack testing was performed at maximum emission capacity for each pollutant, the DEP simply cannot determine whether the resulting emission limits and PTE calculations are accurate. Thus, the DEP cannot confirm that the Rockwool facility has the potential to emit all NSR regulated pollutants in amounts less than 250 tons per year as required by the PSD requirements of West Virginia law and the federal Clean Air Act. For any and all of the foregoing reasons, the DEP acted unreasonably, arbitrarily and capriciously, and/or exceeded its authority, in issuing the Modified Permit that classified Rockwool as a minor stationary source and failed to include PSD permitting requirements.

# VII. Relief Requested

Appellants seek the following relief:

44. The DEP should be ordered to withdraw the current Modified Permit in its entirety, to require Rockwool to submit a new application for modification to its existing PSD Permit in which all of the errors, omissions, inaccurate and incomplete information is corrected, and to undertake a full evaluation of that information to confirm that any resulting modified permit is in compliance with the permitting requirements of the West Virginia Air Pollution Control Act, the federal Clean Air Act, and the state and federal rules implementing those Acts. This process would include another period of public comment and review.

45. In the alternative, Appellants request the DEP be mandated to withdraw the current Registration, and require Rockwool to submit a new application for a minor source permit modification, providing true, accurate and complete information on each of the Specific Objections that the AQB determines was inappropriately accepted by the DEP. This process would include another period of public comment and review.

Respectfully Submitted,

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By Counsel,

Ander love

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