



Annual Compliance Certification - WVDAQ Facility ID 037-00108

1 message

Grant Morgan <Grant.Morgan@erm.com>

Tue, Mar 15, 2022 at 9:30 AM

To: "DEPAirQualityReports@wv.gov" <DEPAirQualityReports@wv.gov>

Cc: Ryan Durrill <ryan.durrill@rockwool.com>, Stacey Phillips <stacey.phillips@rockwool.com>, Jeff Twaddle <Jeff.Twaddle@erm.com>

Hello,

On behalf of Roxul USA, Inc. (dba ROCKWOOL), please find the attached Annual Compliance Certification as required by Permit No. R14-0037.

As DEP commences review, please reach out with questions and comments.

Thank you,

Grant Morgan, P.E. (WV)

ERM | 971 WV-34 | Hurricane, WV | 25526

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RAN Annual Compliance Certification RY2021.pdf

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March 15, 2022

Laura Crowder, Director
Division of Air Quality
West Virginia Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304-2345

Re: **Annual Compliance Certification**
ROCKWOOL USA, Inc., Kearneysville, WV (AIR Permit No. R14-0037)

Dear Ms. Crowder:

The ROCKWOOL USA, Inc. (ROCKWOOL) facility submits the enclosed Annual Compliance Certification, as required by permit R14-0037, condition 4.5.1.b. The ROCKWOOL facility operates as a major source and commenced initial operations on May 22, 2021¹. As required by the West Virginia Department of Environmental Protection (WVDEP), a Title V Permit Application will be filed within 1 year of commencing operations.

The enclosed Annual Compliance Certification makes note of eleven (11) items where affirmative statements of compliance cannot be provided. Eight (8) these eleven (11) items are attributed to minor changes in facility configuration, such as changes to installed unit sizes or slight changes in modeled stack locations. The remaining three (3) items have previously been reported to WVDEP as a part of the Mineral Wool MACT Semi-annual Report or as a part of the Initial Source Testing Compliance Result Report. ROCKWOOL is preparing to submit an updated R14 permit application (at the time of Title V submittal) that will update the permit to reflect as-constructed conditions at the RAN site. The permitting action will result in a net decrease in emissions. RAN currently operates and will continue to operate in compliance with Federal and State requirements and site-wide emissions are below the limits established in R14-0037.

If you have any questions or comments regarding this submittal or require additional information, please contact our SHEQ Manager, Ryan Durrill, at (304) 830-6464 or via email at ryan.durrill@ROCKWOOL.com.

¹ Per the NESHAP General Provisions in §63.2, startup means the setting in operation of an affected source or portion of an affected source for any purpose.



Permit No. R14-0037
Annual Compliance Certification

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Graves', with a long horizontal flourish extending to the right.

Mark Graves
Director of Operations
ROCKWOOL USA, Inc.


Cc: Attn: Director, Air & Radiation Division
United States Environmental Protection Agency, Region 3 (Mid-Atlantic)
1650 Arch Street
Philadelphia, PA 19103-2029

Ryan Durrill - ROCKWOOL USA, Inc.
Jeff Twaddle - Environmental Resources Management, Inc.



WV Division of Air Quality
 601 57th Street SE
 Charleston, WV 25304
 Telephone Number: (304) 926-0475
 Fax Number: (304) 926-0478

TITLE V OPERATING PERMIT ANNUAL COMPLIANCE CERTIFICATION¹

Name of Permittee: Roxul USA, Inc. dba ROCKWOOL		Name of Facility: RAN Mineral Wool Production Facility	
Permit Number: R30- -		AFS Plant ID Number: 03-54-037-00108	
Mailing Address: 665 Northport Avenue Kearneysville, WV 25430		Contact Person: Ryan Durrill Title: SHEQ Manager Telephone: (304) 830-6464	
For the reporting period beginning 01 / 01 /2021 and ending 12 /31 /2021			
Based upon the specific test methods, monitoring, recordkeeping and/or reporting required under the permittee's Title V Operating Permit and any other information reasonably available, I, the undersigned, hereby certify for the reporting period stated above:			
<p>a. The permittee has been in compliance with all General Conditions 2.3.2, 2.3.3, 2.5.1.a and b, 2.10, 2.11.2, 2.12, 2.13.1, 2.14, 2.15, 2.19, 2.20, and 2.25 of the permittee's Title V Operating Permit, except to the extent that the permittee's Title V Operating Permit and underlying rules explicitly provide for exception periods or where deviations have been identified in either the 1st Half Semi-annual Monitoring Report previously submitted or the 2nd Half Semi-annual Monitoring Report attached to this certification.</p> <p>b. I have reviewed all facility-wide and source specific requirements of the permittee's Title V Operating Permit, and certify compliance of all air pollutant emitting equipment and processes subject to facility-wide and source specific requirements of the permittee's Title V Operating Permit with all such requirements including all emission limitations and standards set forth in the referenced permit, except to the extent that the permit and underlying rules explicitly provide for exception periods or where deviations have been identified in either the 1st Half Semi-Annual Monitoring Report previously submitted or the 2nd Half Semi-Annual Monitoring Report attached to this certification.</p> <p>c. Based on information and belief formed after reasonable inquiry, the statements and information in this document and attachments are true, accurate, and complete.¹</p>			
Responsible Official ²			
Name: Mark Graves		Title: Director of Operations	
Signature: 		Date: 03/14/2022	
Note: Please check all <u>required</u> attachments included with this Annual Compliance Certification.			
DAQ	<input checked="" type="checkbox"/> Form A – Annual Compliance Certification <input checked="" type="checkbox"/> Semi-Annual Monitoring Report for the 2 nd Half (July 1st through December 31 st) <i>Submit signed electronic copy by e-mail to: DEPAirQualityReports@wv.gov</i>		
EPA	<input type="checkbox"/> Form A – Annual Compliance Certification <input type="checkbox"/> Semi-Annual Monitoring Report for the 1 st Half (January 1 st through June 30 th) <input type="checkbox"/> Semi-Annual Monitoring Report for the 2 nd Half (July 1 st through December 31 st) <i>Submit signed electronic copy by e-mail to: R3 APD Permits@epa.gov</i>		
<small>¹ Please note that the West Virginia Code states that any person who knowingly misrepresents any material fact in an application, record, report, plan or other document filed or required to be maintained is guilty of a misdemeanor and may be subject to fines and/or imprisonment in accordance with W.V.A. Code §22-5-6(b).</small>			
<small>² A Responsible Official as defined by 45CSR§30-2.38 must sign this certification.</small>			

Note: Print and scan or print to a PDF file. E-mail the completed PDF form to the addresses above.

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility	Emission Units: 1.0	[Not Verbatim]: Please see permit for table of Emission Units	Informational	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.1.2	The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.2	[Not Verbatim]: Please see permit for list of acronyms	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.3	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:	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.3.2	45CSR14 - Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.4	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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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]	Construct and operate facility in accordance with permit application	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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;	Comply with permit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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;	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.6	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.	Supply information to the Secretary as requested	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.7	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.	If needed, submit corrected or supplemental information	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.8	The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13. [45CSR§13-4]	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.9	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.]	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility	General Conditions: 2.10	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]	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.11	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.	Allow entry to WV Secretary Representatives	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.12.1	An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.12.2	Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.12.3	The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that: a. An emergency occurred and that the permittee can identify the cause(s) of the emergency; b. The permitted facility was at the time being properly operated; c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and, d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.	Submit notice within 1 working day and demonstrate affirmative defense of emergency through signed evidence as needed	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.12.4	In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.12.5	The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.13	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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.14	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.	If needed, submit notice within 2 calendar weeks of the passing of the sixtieth day of the suspension period	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.15	This permit does not convey any property rights of any sort or any exclusive privilege.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.16	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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.17	This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR§13-10.1]	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility	General Conditions: 2.18	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.	Submit notification no later than 30 calendar days after startup of operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	General Conditions: 2.19	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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 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.]	Open burning is not permitted, with some exceptions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 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.]	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 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]	Inspect for asbestos prior to demolition and submit notification to Secretary, EPA, and Bureau for Public Health 10 days before asbestos removal as needed	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 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.]	Prevent odorous emissions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 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.]	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 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.]	Prepare standby plan for reducing emissions if requested by Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide 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 ₁₀ emission limit is not necessarily required for 24 consecutive hours). The required length of time of a performance test will be determined by the appropriate test method and compliance procedures as approved under a protocol submitted pursuant to 3.3.1(c).	Determine compliance with annual emission limits based on rolling 12 month total unless otherwise specified. Determine compliance with hourly emission limits based on applicable NAAQS averaging times or, where applicable, as given in any approved performance testing method unless otherwise specified.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide 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:	Conduct stack states according to permit; Allow Secretary to witness or conduct tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 3.3.1(a)	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.	Perform additional or alternative testing to demonstrate compliance if required by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 3.3.1(b)	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.	Perform additional or alternative testing to demonstrate compliance if required by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Facility-Wide Requirements: 3.3.1(c)	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.	Submit stack testing protocol at least 30 days prior to testing and testing notification at least 15 days prior to testing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

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Emission Unit ID		Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility		Facility-Wide Requirements: 3.3.1(d)	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]	Submit stack test report with compliance certification within 60 days of completion of test	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide 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.	Maintain records of all information required by permit for 5 years; retain at least the most recent 2 years of data on site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide Requirements: 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.]	Maintain a record of all odor complaints received	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide 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.	Responsible official must certify all submittals to DAQ and/or USEPA required by the permit	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide Requirements: 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.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide Requirements: 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: DAQ: Director WVDEP Division of Air Quality 601 57th Street SE Charleston, WV 25304-2345 US EPA: Associate Director Office of Air Enforcement and Compliance Assistance - (3AP20) U. S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029 DAQ Compliance and Enforcement ¹ : DEPAirQualityReports@wv.gov ¹ For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide Requirements: 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.	Submit annual certified emissions statement and pay fees on an annual basis; Maintain receipt for the appropriate fee on the premises	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide Requirements: 3.5.4.2	In accordance with 45CSR30 - Operating Permit Program, enclosed with this permit is a Certified Emissions Statement (CES) Invoice, from the date of initial startup through the following June 30. Said invoice and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with the Section 4.5 of 45CSR22. A copy of this schedule may be found attached to the Certified Emissions Statement (CES) Invoice.	Submit CES Invoice and fee within 30 days prior to date of initial startup	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Facility-Wide Requirements: 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.	Prepare and submit emission inventory for the previous year when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Source-Specific Requirements: 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 Application R14-0037, 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.	Install, maintain, and operate emission units/sources according to permit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)

Permittee: ROXUL USA, Inc. dba ROCKWOOL

Facility: RAN Facility

Permit Number: R14-0037

For the reporting period beginning 01/01/2021 and ending 12/31/2021

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility	Source-Specific Requirements: 4.1.2(a), (b)	<p>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), coal milling material handling operations, 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:</p> <p>a. The permittee shall not exceed the specified maximum design capacities of the following operations: Maximum Design Capacities: Raw Materials⁽¹⁾ - 716⁽²⁾ Ton/Day (650 Tonne/Day) Lump Coal/Pet Coke - 93⁽³⁾ Ton/Day (84 Tonne/Day) Portable Melt Crushing - <150 TPH (<136 Tonne/Hour) (1) Rock, Slag, and Minerals (2) As based on the Charging Building (B220) Conveyor Belt. (3) As based on the Coal Mill Feed Conveyor Belt.</p> <p>b. The permittee shall not exceed the specified maximum annual throughputs or hours of operation of the following operations: Maximum Annual Throughputs: Portable Melt Crushing - 540 Hours of Operation</p>	Monitor throughputs of Raw Materials, Lump Coal/Pet Coke, and Portable Melt Crushing as well as Portable Melt Crushing hours of operation to ensure permitted limits are not exceeded	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF03A, IMF03B, IMF03C, IMF04, IMF06, IMF07A, IMF07B, IMF08, IMF09, IMF10, IMF11, IMF12, IMF13, IMF14, IMF15, IMF16, IMF17, IMF18, IMF21, IMF25, B235, CE01, CE02, CM08, CM09, CM10, CM11	Source-Specific Requirements: 4.1.2(c)	c. The permittee shall not exceed the maximum emission limits for the specified emission points given in the following tables: <i>[Not Verbatim]: Please see tables 4.1.2(c)(1) and 4.1.2(c)(2) in the permit for Material Handling Operations Stack Emission Limits</i>	Comply with emission limitations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
B215, RMS, RM_REJ, S_REJ, B170, B210, B230, B231	Source-Specific Requirements: 4.1.2(d)	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: <i>[Not Verbatim]: Please see tables 4.1.2(d)(1) and 4.1.2(d)(2) in the permit for Material Handling Operations Fugitive Emission Limits</i>	Comply with emission limitations and utilize control methods for specified fugitive sources	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
B170	Source-Specific Requirements: 4.1.2(e)	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: <i>[Not Verbatim]: Please see tables 4.1.2(e) in the permit for Melting Furnace Portable Crusher Emission Limits</i>	Comply with emission limitations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF17, IMF18, B235	Source-Specific Requirements: 4.1.2(f)	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) and the coal conveyor transfer point located inside the Coal Milling Building (B235) 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 ³) of filterable PM/PM ₁₀ and 0.001 gr/dscf (2.5 mg/Nm ³) filterable PM _{2.5} ;	Equip sources with fabric filters meeting the maximum outlet grain loading concentration requirements	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
RMS, B210, B211, B230, B170	Source-Specific Requirements: 4.1.2(g)	<p>g. Outdoor Material Storage Areas All outdoor raw material, coal, pit waste, or recycled material storage shall be in accordance with the following:</p> <p>(1) The permittee is authorized to operate one (1) raw material stockpile (RMS) that shall not exceed a base of 5,382 ft² (500 m²) and shall utilize 3-sided enclosures to minimize the potential fugitive emissions of particulate matter from wind erosion and pile activity;</p> <p>(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;</p> <p>(3) The permittee is authorized to operate one (1) coal bunker (B230) that shall utilize a 3-sided enclosure, a roof, and a closeable bay door (or equivalent design) to minimize the potential fugitive emissions of particulate matter from wind erosion and pile activity;</p> <p>(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;</p> <p>(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 ft² (1,800 m²) and shall utilize a 3-sided enclosure to minimize the potential fugitive emissions of particulate matter from wind erosion and pile activity;</p> <p>(6) For all storage piles, the permittee shall manage on-pile activity so as to minimize the release of emissions; and</p> <p>(7) All storage area enclosures shall be reasonably maintained and any significant holes shall be repaired immediately.</p>	Operate and maintain outdoor material storage areas according to permit	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

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Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility	Source-Specific Requirements: 4.1.2(h)	<p>h. Haulroads and Mobile Work Areas</p> <p>Fugitive particulate emissions resulting from use of haulroads and mobile work areas shall be minimized by the following:</p> <p>(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;</p> <p>(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</p> <p>(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.</p>	Maintain haulroads and mobile work areas according to permit	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
B170, Rd_RM, Rd_CM, Rd_FP, IMF03, IMF08, IMF09, IMF25, IMF21, CM10, CM11, CM08, CM09, CE01, CE02, IMF06, IMF04, IMF13	Source-Specific Requirements: 4.1.2(i)	<p>i. 45CSR7</p> <p>The handling of raw materials used in the production of mineral wool and coal milling material handling operations shall comply with all applicable requirements of 45CSR7 including, but not limited to, the following:</p> <p>(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]</p> <p>(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]</p> <p>(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]</p> <p>(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]</p>	Comply with applicable requirements of 45CSR7; Conduct visible emission monitoring in accordance with the procedures outlined under 45CSR7A when designated by the Secretary; Equip fugitive-generating sources with a system to minimize particulate matter	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
RM_REJ, S_REJ, IMF07, IMF10, IMF11, IMF12, IMF14, IMF15, IMF16, IMF17, IMF18	Source-Specific Requirements: 4.1.2(j)	<p>j. 40 CFR 60, Subpart OOO</p> <p>The non-metallic mineral handling operations (see Table 4-1 of Permit Application R14-0037 for 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:</p> <p>(1) 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)]</p> <p>(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)]</p> <p>(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)]</p> <p>(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:</p> <p>(1) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed 7 percent opacity; and</p> <p>(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)]</p> <p>(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)]</p>	Conduct initial and 1/5 year Method 9 testing; submit applicable notifications and testing results; comply with recordkeeping and reporting requirements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

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Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
IMF05	Source-Specific Requirements: 4.1.3(a)-(d)	<p>Coal Mill Burner and Fluidized Bed Dryer</p> <p>The Coal Mill Burner and Fluidized Bed Dryer, identified as IMF05, shall meet the following requirements:</p> <p>a. The Coal Mill Burner shall not exceed an MDHI of 6.00 mmBtu/hr (1,757 kW) shall only be fired by pipeline-quality natural gas (PNG);</p> <p>b. The Fluidized Bed Dryer shall have a design capacity not to exceed 200 tons per day;</p> <p>c. The combined exhaust from the Coal Mill Burner and Fluidized Bed Dryer shall be vented to first a separator and then to a baghouse (IMF05-BH) for control of filterable particulate matter;</p> <p>d. The combined exhaust of the Coal Mill Burner and Fluidized Bed Dryer shall not exceed the emission limits, and shall utilize the specified BACT Technology, as given in the following table: <i>[Not Verbatim]: Please see table 4.1.3(d) in the permit for Coal Mill Burner and Fluidized Bed Dryer Emission Limits</i></p>	Comply with maximum design heat input and only burn PNG in Coal Mill Burner; Comply with Fluidized Bed Dryer design capacity; Utilize IMF05-BH for control of filterable PM; Comply with emission limitations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF05	Source-Specific Requirements: 4.1.3(e)	<p>e. 45CSR7</p> <p>The Coal Mill Burner and Fluidized Bed Dryer shall comply with all applicable requirements of 45CSR7 including, but not limited to, the following:</p> <p>(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]</p> <p>(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]</p> <p>(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]</p>	Comply with applicable requirements of 45CSR7; Conduct visible emission monitoring in accordance with the procedures outlined under 45CSR7A when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.1.4(a)	<p>Melting Furnace</p> <p>The Melting Furnace, identified as IMF01, shall meet the following requirements:</p> <p>a. The Melting Furnace shall not exceed the emission limits, and shall utilize the specified BACT Technology, as given in the following table: <i>[Not Verbatim]: Please see table 4.1.4(a) in the permit for Melting Furnace Emission Limits</i></p>	Comply with emission limitations; utilize specified BACT Technology	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.1.4(b)	<p>b. 45CSR7</p> <p>The Melting Furnace shall comply with all applicable requirements of 45CSR7 including, but not limited to, the following:</p> <p>(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]</p> <p>(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]</p> <p>(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]</p> <p>(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]</p>	Comply with applicable requirements of 45CSR7; Conduct visible emission monitoring in accordance with the procedures outlined under 45CSR7A when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.1.4(c)	<p>c. 45CSR10</p> <p>The Melting Furnace shall comply with all applicable requirements of 45CSR10 including, but not limited to, the following:</p> <p>(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]</p>	Comply with sulfur dioxide concentration limitations given in 45CSR10; Conduct testing/monitoring if designated by the Director	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

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Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
IMF01	Source-Specific Requirements: 4.1.4(d)	<p>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:</p> <p>(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)] (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)(1)] (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)(11)] 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, (%). 1.00 = 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.</p>	<p>Comply with emission limits given in Table 2 of 40CFR63, Subpart DDD; comply with operating limits for cupolas outlined in 40 CFR§63.1178</p> <p>RAN submitted Mineral Wool MACT Semiannual Report on January 31st, 2022 detailing deviation for Melting Furnace regarding excess oxygen level</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
GUT-EX, SPN, CO-HD, CO, CS	Source-Specific Requirements: 4.1.5(a)	<p>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:</p> <p>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 BACT Technology as given in the following table: [Not Verbatim]: Please see table 4.1.5(a) in the permit for Gutter Exhaust, Spinning Chamber, Curing Oven Hoods, Curing Oven, and Cooling Section Emission Limits</p>	Comply with emission limitations and utilize specified BACT Technology	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
GUT-EX, CO-HD, CO, SPN	Source-Specific Requirements: 4.1.5(b)	<p>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:</p> <p>(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) 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]</p>	Comply with applicable requirements of 45CSR7; Conduct visible emission monitoring in accordance with the procedures outlined under 45CSR7A when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
GUT-EX, CO-HD, CO, SPN	Source-Specific Requirements: 4.1.5(c)	<p>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:</p> <p>(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)] [Not Verbatim]: Please see table 3 to Subpart DDD of Part 63 in the permit for Emission Limits and Compliance Dates</p>	Comply with emission limitations in pounds of formaldehyde, methanol, and phenol per ton melt for combined vertical collection/curing operations as given in 40 CFR §63.1179	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)

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Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037												
For the reporting period beginning 01/01/2021 and ending 12/31/2021																
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?										
CM12, CM13	Source-Specific Requirements: 4.1.6(a)-(b)	<p>Fleece Application</p> <p>The Fleece Application operations shall meet the following requirements:</p> <p>a. The maximum emissions of VOCs and HAPs from the Fleece Application operations each shall not exceed of 7.14 tons per month (6.48 tonnes/month) and a BACT limit (BACT limit is VOCs only) of 28.58 TPY (23.21 tonnes/year);</p> <p>b. The BACT 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</p>	Comply with emission limitations; utilize specified BACT Technology	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)										
CM12, CM13	Source-Specific Requirements: 4.1.6(c)	<p>c. 40 CFR 63, Subpart JJJJ</p> <p>The fleece application operations shall comply with all applicable requirements of 40 CFR 63, Subpart JJJJ including, but not limited to, the following:</p> <p>What emission standards must I meet?</p> <p>(1) 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. [40 CFR§63.3320(a)]</p> <p>(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)]</p> <p>(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)]</p> <p>(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)]</p> <p>(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)]</p> <p>(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)]</p> <p>(3) You must demonstrate compliance with this subpart by following the procedures in §63.3370. [40 CFR§63.3320(c)]</p>	Comply with applicable requirements of 40CFR63 Subpart JJJJ	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)										
RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9	Source-Specific Requirements: 4.1.7(a)-(c)	<p>Rockfon Line</p> <p>The Rockfon Line shall meet the following requirements:</p> <p>a. The maximum aggregate VOC emissions from the application of glue and coatings in the Rockfon line shall not exceed 8.98 tons/month (8.15 tonne/month) and a BACT limit of 35.93 TPY (32.60 tonne/yr);</p> <p>b. The BACT Technology for the application of glue and coatings in the Rockfon Line is the use of low-VOC materials and the utilization of Good Work Practices. "Low-VOC materials" shall mean the use of glue is limited to containing (BACT Limit) of a maximum VOC content of 0.57 lb-VOC/gallon-glue (70 g-VOC/L-material) and the use of coatings are limited to containing (BACT Limit) a maximum VOC content of 0.67 lb-VOC/gallon-material (80 g-VOC/L-material). No HAP-containing glues or coatings shall be used in the Rockfon Line. "Good Work Practices" shall mean storing VOC-containing materials in closed tanks or containers, cleaning up spills, and minimizing cleaning with VOC-containing cleaners;</p> <p>c. The ovens used in the Rockfon line shall only combust PNG and each not exceed the aggregate MDHI (of all burners) specified in the following table:</p> <p>Table 4.1.7(c): Rockfon Line Ovens MDHI</p> <table border="1"> <thead> <tr> <th>Oven ID</th> <th>MDHI</th> </tr> </thead> <tbody> <tr> <td>RFN-E3</td> <td>2.73 mmBtu/hr (800 kW)</td> </tr> <tr> <td>RFN-E4</td> <td>2.05 mmBtu/hr (600 kW)</td> </tr> <tr> <td>RFN-E6</td> <td>4.78 mmBtu/hr (1,400 kW)</td> </tr> <tr> <td>RFN-E9</td> <td>2.73 mmBtu/hr (800 kW)</td> </tr> </tbody> </table>	Oven ID	MDHI	RFN-E3	2.73 mmBtu/hr (800 kW)	RFN-E4	2.05 mmBtu/hr (600 kW)	RFN-E6	4.78 mmBtu/hr (1,400 kW)	RFN-E9	2.73 mmBtu/hr (800 kW)	Comply with emission limitations from the application of glue and coatings; Utilize the specified BACT Technology for the application of glue and coatings; Comply with maximum design heat input and only combust PNG in Rockfon Line Ovens	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Oven ID	MDHI															
RFN-E3	2.73 mmBtu/hr (800 kW)															
RFN-E4	2.05 mmBtu/hr (600 kW)															
RFN-E6	4.78 mmBtu/hr (1,400 kW)															
RFN-E9	2.73 mmBtu/hr (800 kW)															
RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9	Source-Specific Requirements: 4.1.7(d)-(e)	<p>d. The Rockfon Line shall not exceed the emission limits (not including VOCs resulting from the use of glue and coatings as limited under 4.1.7(a)), and each shall utilize the specified BACT Technology as given in the following tables: [Not Verbatim]: Please see table 4.1.7(d)(1) and 4.1.7(d)(2) in the permit for Rockfon Line Emission Limits</p> <p>e. As the annual emission limits of RFN-E3, RFN-E4, RFN-E6, and RFN-E9 listed under Table 4.1.7(d) are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis for these units.</p>	Comply with emission limitations and utilize specified BACT Technology	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)										

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Emission Unit ID		Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9		Source-Specific Requirements: 4.1.7(f)	f. 45CSR7 The Rockfon Line 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) 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]	Comply with applicable requirements of 45CSR7; Conduct visible emission monitoring in accordance with the procedures outlined under 45CSR7A when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF24, CM03, CM04, RFN10		Source-Specific Requirements: 4.1.8(a)-(c)	Fuel Burning Units The Fuel Burning Units, identified as IMF24, CM03, CM04, and RFN10, shall meet the following requirements: a. The units shall only combust PNG and each not exceed an aggregate MDHI (of all burners) of 5.1 mmBtu/hr (1,500 kW) for each permitted emission: b. The units shall not exceed the emission limits given in the following table: <i>[Not Verbatim]: Please see table 4.1.8(b) in the permit for Per-Fuel Burning Unit Emission Limits</i> c. As all the annual emissions of the units listed under Table 4.1.8(b) are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis for those units; and	Comply with maximum design heat input and only combust PNG in Fuel Burning Units; Comply with emission limitations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF24, CM03, CM04, RFN10		Source-Specific Requirements: 4.1.8(d)	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]	Upon request by the Secretary, determine compliance with the visible emission requirements of 40CSR§2-3.1 in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
TK-DF, TK-UO, TK-TO1, TK-TO2, TK-TO3, TK-TO4, TK-DO, TK-RS1 through TK-RS7, TK-CA, TK-AD, TK-BM, TK-BC, TK-BD, TK-BS1 through TK-BS3, TK-DOD, TK-PD, TK-PDD		Source-Specific Requirements: 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 a BACT Limit of 0.19 tons/year (0.17 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: <i>[Not Verbatim]: Please see table 4.1.9(c) in the permit for Storage Tank Throughput Limits</i> d. For BACT purposes, 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.	Comply with tank size limitations as specified in permit; comply with aggregate VOC emission limitation; comply with aggregate annual storage tank throughputs as specified in permit; utilize good operating practices in the operation of storage tanks	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
EFP1		Source-Specific Requirements: 4.1.10(a)-(b)	Emergency Fire Pump Engine The Emergency Fire Pump Engine, identified as EFP1, shall meet the following requirements: a. The unit shall not exceed 197 horsepower (150 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: <i>[Not Verbatim]: Please see table 4.1.10(b) in the permit for Emergency Fire Pump Emission Limits</i>	Comply with maximum design capacity and only fire with ULSD; comply with maximum annual and daily hours of operation in times not defined as emergencies; comply with emission limitations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)
EFP1		Source-Specific Requirements: 4.1.10(c)	c. 40 CFR 60, Subpart III The Emergency Fire Pump Engine shall meet all applicable requirements under 40 CFR 60, Subpart III including the following: (1) 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: <i>[Not Verbatim]: Please see table 4 to Subpart III of Part 60 in the permit for Emission Standards for Stationary Fire Pump Engines</i>	Comply with emission limitations given in 40CFR60, Subpart III	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
EFP1		Source-Specific Requirements: 4.1.10(d)	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 III, 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)]	Compliance with 40CFR63, Subpart ZZZZ is demonstrated by meeting the requirements of 40CFR60, Subpart III	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

Permittee: ROXUL USA, Inc. dba ROCKWOOL

Facility: RAN Facility

Permit Number: R14-0037

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Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
DI	Source-Specific Requirements: 4.1.11(a)	a. Dry Ice Cleaning The maximum input design capacity of the dry ice production unit (DI) shall not exceed 4.37 tons/day (3.97 tonne/day), and the emissions of CO ₂ from the use dry ice cleaning shall not exceed (BACT limit) 363.76 PPH (165 kg/hr) or 1,594 TPY (1,446 tonne/year).	Comply with maximum input design capacity and CO ₂ emission limitation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF02, HE02	Source-Specific Requirements: 4.1.11(b)	b. Cooling Towers The Cooling Towers shall operate in accordance with the following requirements: (1) The Cooling Tower shall use the control device specified under Section 1.0 at all times in operation and not exceed the specified maximum design and operational limits in the following table: <i>[Not Verbatim]: Please see table 4.1.11(b)(1) in the permit for Cooling Tower Specifications</i> (2) The maximum emissions from the Cooling Towers shall not exceed the limits given in the following table: <i>[Not Verbatim]: Please see table 4.1.11(b)(2) in the permit for Cooling Tower Emission Limits</i>	Use control devices specified in permit; comply with maximum design and operational limits specified in permit; comply with emission limitations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
P_MARK	Source-Specific Requirements: 4.1.11(c)	c. Product Marking The Product Marking Operations, identified as P_MARK, shall operate in accordance with the following requirements: (1) The MDHI of the burners used with the branding wheels used in Product Marking shall not exceed 0.40 mmBtu/hr (120 kW) and shall only be fired with PNG. Combustion exhaust from the burners shall not exceed the following emissions: <i>[Not Verbatim]: Please see table 4.1.11(c)(1) in the permit for Product Marking Burners Combustion Exhaust Emission Limits</i> (2) As all the annual emissions listed under Table 4.1.11(c)(1) are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis for the unit; and (3) The BACT Technology for the use of ink and cleaners during Product Marking Operations is the utilization of Good Work Practices. "Good Work Practices" shall mean storing VOC containing materials in closed tanks or containers, cleaning up spills, and minimizing cleaning with VOC-containing cleaners. VOC emissions from the use of ink and cleaners during Product Marking operations shall not exceed 2.37 tons/month (2.15 tonne/month) and a BACT limit of 9.49 TPY (8.61 tonne/yr) and no HAP-containing inks or cleaners shall be used during Product Marking Operations.	Comply with maximum design heat input and only fire with PNG; Comply with emission limitations; Utilize BACT Technology of Good Work Practices	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Source-Specific Requirements: 4.1.12(a)	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. <i>[45CSR§13-5.11.]</i>	Operate and maintain air pollution control equipment and associated monitoring equipment according to good air pollution control practices	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.1.12(b)	b. Inherent SNCR De-NOx System The permittee shall design and operate the Melting Furnace so as to promote the inherent removal of NOx from the exhaust gas stream. The permittee shall maintain a proper temperature profile for NOx 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 NOx emission limits given under Table 4.1.4(a) using the CEMS as required under 4.2.6.	Demonstrate compliance by showing compliance with NOx emission limit using CEMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.1.12(c)	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 ₂ SO 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.	Demonstrate compliance by showing compliance with SO ₂ emission limit using CEMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.1.12(d)	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: <i>[40 CFR §63.1181]</i> (i) Install, adjust, maintain, and continuously operate a bag leak detection system for each fabric filter. <i>[40 CFR §63.1181(a)]</i> (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. <i>[40 CFR §63.1181(b)]</i> (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. <i>[40 CFR §63.1181(c)]</i> (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. <i>[40 CFR §63.1181(d)]</i>	Monitor differential pressure drop of IMF01-BH using monitoring system with appropriate alarm set-points; Comply with particulate matter standards of 40 CFR 63, Subpart DDD for cupolas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL Facility: RAN Facility Permit Number: R14-0037

For the reporting period beginning 01/01/2021 and ending 12/31/2021											
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period? If deviations occurred, indicate when deviations were reported?						
GUT-EX, SPN, CO-HD, CO, CS	Source-Specific Requirements: 4.1.12(e)	<p>e. Wet Electrostatic Precipitator (WESP) The operation of the WESP shall be in accordance with the following requirements:</p> <p>(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</p> <p>(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)(l). 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).</p>	Utilize WESP to reduce particulate matter emissions; Monitor the secondary voltage and secondary amperage of range of the WESP using monitoring system with appropriate alarm set-points	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)						
CO	Source-Specific Requirements: 4.1.12(f)(1)	<p>f. Curing Oven Afterburner The Curing Oven Afterburner, CO-AB, shall operate according to the following requirements:</p> <p>(l) The Curing Oven Afterburner shall not exceed a burner capacity of 6.83 mmBtu/hr (2,000 kW) and shall be in operation at all times when the Curing Oven is in operation and is venting VOC-containing vapors;</p>	Comply with maximum burner capacity; operate at all times Curing Oven is in operation and venting VOC-containing vapors	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter <input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)						
CO	Source-Specific Requirements: 4.1.12(f)(2)	<p>(2) 45CSR6 The Curing Oven Afterburner is subject to 45CSR6. The requirements of 45CSR6 include but are not limited to the following:</p> <p>(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</p> <table border="1" style="font-size: small;"> <tr> <td>Incinerator Capacity</td> <td>Factor F</td> </tr> <tr> <td>A. Less than 15,000 lbs/hr</td> <td>5.43</td> </tr> <tr> <td>B. 15,000 lbs/hr or greater</td> <td>2.72</td> </tr> </table> <p>[45CSR§6-4.1] (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 notto 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]</p>	Incinerator Capacity	Factor F	A. Less than 15,000 lbs/hr	5.43	B. 15,000 lbs/hr or greater	2.72	Comply with requirements of 45CSR6; Compliance with the opacity requirements are based on the compliance demonstrations required for emission point HE01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Incinerator Capacity	Factor F										
A. Less than 15,000 lbs/hr	5.43										
B. 15,000 lbs/hr or greater	2.72										

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037														
For the reporting period beginning 01/01/2021 and ending 12/31/2021																		
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?												
CO	Source-Specific Requirements: 4.1.12(f)(3)	(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)]	Comply with the formaldehyde, phenol, and methanol standards by meeting the requirements in 40 CFR §63.1183. RAN submitted Mineral Wool MACT Semiannual Report on January 31st, 2022 detailing deviation for Curing Oven Afterburner temperature	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility	Source-Specific Requirements: 4.1.12(g)	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.	Maintain a certified report listing alarm set-points and the basis of selection; operate control devices within operating range to the extent possible; correct problems if an alarm occurs and maintain records of alarms	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility	Source-Specific Requirements: 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 Application R14-0037.	Stack parameters shall be as specified in most updated version of Permit Application R14-0037	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	One - See Cover Letter	<input checked="" type="checkbox"/> 1st Half (January 1st through June 30th) <input checked="" type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility	Source-Specific Requirements: 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, JJJ, ZZZZ, and DDDDD. Any final revisions made to the above rules will, where applicable, supercede those specifically cited in this permit.	Informational	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility	Source-Specific 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 .	Maintain documentation demonstrating that maximum design capacity limitations are not exceeded	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility	Source-Specific Requirements: 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.	Maintain documentation demonstrating that combustion unit MDHI limitations are not exceeded	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility	Source-Specific Requirements: 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 4.2.3: Facility Quantities Monitored/Recorded <table border="1"> <thead> <tr> <th>Quantity Monitored/Recorded</th> <th>Emission Unit(s)</th> <th>Measured Units</th> </tr> </thead> <tbody> <tr> <td>Portable Melt Crushing</td> <td>Portable Melt Crusher</td> <td>Hours of Operation/year</td> </tr> <tr> <td>Emergency Fire Pump Hours of Operation⁽¹⁾</td> <td>EFP1</td> <td>Hours of Operation/Year</td> </tr> <tr> <td>Storage Tank Throughputs</td> <td>Various</td> <td>Gallons/year</td> </tr> </tbody> </table> (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.	Quantity Monitored/Recorded	Emission Unit(s)	Measured Units	Portable Melt Crushing	Portable Melt Crusher	Hours of Operation/year	Emergency Fire Pump Hours of Operation ⁽¹⁾	EFP1	Hours of Operation/Year	Storage Tank Throughputs	Various	Gallons/year	Monitor and record Portable Melt Crushing annual hours of operation, Emergency Fire Pump hours of operation, and Storage Tank annual throughputs	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Quantity Monitored/Recorded	Emission Unit(s)	Measured Units																
Portable Melt Crushing	Portable Melt Crusher	Hours of Operation/year																
Emergency Fire Pump Hours of Operation ⁽¹⁾	EFP1	Hours of Operation/Year																
Storage Tank Throughputs	Various	Gallons/year																

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Emission Unit ID		Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037			
For the reporting period beginning 01/01/2021 and ending 12/31/2021							
Total Facility	Source-Specific Requirements: 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.).	Maintain and operate control devices as required by permit; maintain records of significant maintenance or repairs performed	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
IMF05	Source-Specific Requirements: 4.2.5	Coal Fluidized Bed Dryer To determine continuous compliance with the maximum temperature requirement given under Table 4.1.3(d)- footnote (1), the permittee shall install and maintain instrumentation in the Coal Fluidized Bed Dryer so as to monitor and record the temperature in the drying zone of the dryer.	Install and maintain instrumentation in the Coal Fluidized Bed Dryer to monitor and record the temperature in the drying zone	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
IMF01	Source-Specific Requirements: 4.2.6	Melting Furnace CEMS (IMF01) Within 60 days after achieving the maximum design mineral wool production rate at which the facility will be operated, but not later than 180 days after initial startup, the permittee shall, to show continuous compliance with the CO, NOx, and SO ₂ emission limits as given under Table 4.1.4(a), install and operate a Continuous Emissions Monitoring System (CEMS) for monitoring the emissions of CO, NOx, 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.	Install and operate CEMS within 60 days after achieving design mineral wool production rate but not later than 180 days after startup; develop CEMS protocol to be approved by the Director prior to operation; comply with 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; conduct RAA or RATA at least once every 3 years; conduct CGA each calendar quarter during which a RAA or a RATA is not performed; maintain data recorded by CEMS for at least 3 years	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
CM12, CM13	Source-Specific Requirements: 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/lb coating) as based on the procedures under 40 CFR 63, Subpart JJJJ, Section §63.3370(a).	Monitor and record the monthly and twelve-month rolling total of the amount of VOCs/HAPs used; monitor and record the monthly as-applied VOC/HAP content	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9	Source-Specific Requirements: 4.2.8	Rockfon Line Coatings/Glue Usage To determine continuous compliance with the VOC emission limit and the low-VOC BACT requirements given under 4.1.7(a) and (b), the permittee shall monitor and record the monthly and twelve-month rolling total of the amount (in tons) of VOCs used in the Rockfon coating and gluing process. The amount shall be based on actual material properties (VOC 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 used in the Rockfon coating and gluing 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.	Monitor and record the monthly and twelve-month rolling total of the amount of VOCs used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
EFP1	Source-Specific Requirements: 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.	Obtain annual certification from the fuel oil supplier of the sulfur content from the fuel combusted in the Emergency Fire Pump Engine	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
IMF02, HE02	Source-Specific Requirements: 4.2.10	Cooling Tower For the purposes of demonstrating initial and continuing compliance with the operational limits set forth in Table 4.1.11 (b)(1), the permittee shall, for both cooling towers, within 180 days of startup, take an initial grab sample of the cooling tower circulating water and analyze such to determine the total solids content of the cooling tower circulating water. Thereafter, the permittee shall test for solids content on an annual basis (with no more than 14 months between tests).	Take initial grab sample of cooling tower circulating water and analyze to determine total solids content within 180 days of startup; test for solids content on an annual basis with no more than 14 months between tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	
P_MARK	Source-Specific Requirements: 4.2.11	Product Marking To determine continuous compliance with the Product Marking (P_MARK) VOC emission limits and given under 4.1.11 (c)(3), the permittee shall monitor and record the monthly and twelve-month rolling total of the amount (in tons) of VOCs used in the Product Marking process. The amount shall be based on actual material properties (VOC 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 used in the Product Marking 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.	Monitor and record the monthly and twelve-month rolling total of the amount of VOCs used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)	

Form A - Annual Compliance Certification

Emission Unit ID		Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?												
IMF01, GUT-EX, SPN, CO-HD, CO, CS		Source-Specific Requirements: 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: Table 4.2.12: Control Device Parameters Monitored/Recorded <table border="1"> <thead> <tr> <th>Control Device</th> <th>Control Device ID</th> <th>Parameter(s)</th> </tr> </thead> <tbody> <tr> <td>Melting Furnace Baghouse</td> <td>IMF01-BH</td> <td>Pressure Drop</td> </tr> <tr> <td>WESP</td> <td>WESP</td> <td>Secondary Voltage, Secondary Amperage</td> </tr> <tr> <td>Curing Oven Afterburner</td> <td>CO-AB</td> <td>Firebox Temperature⁽¹⁾</td> </tr> </tbody> </table> (1) Pursuant to 40 CFR 63, Subpart DDD, §63.1182.	Control Device	Control Device ID	Parameter(s)	Melting Furnace Baghouse	IMF01-BH	Pressure Drop	WESP	WESP	Secondary Voltage, Secondary Amperage	Curing Oven Afterburner	CO-AB	Firebox Temperature ⁽¹⁾	Install, maintain, and operate instrumentation to continuously monitor and record IMF01-BH Pressure Drop, WESP Secondary Voltage and Secondary Amperage, and CO-AB Firebox Temperature	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Control Device	Control Device ID	Parameter(s)																	
Melting Furnace Baghouse	IMF01-BH	Pressure Drop																	
WESP	WESP	Secondary Voltage, Secondary Amperage																	
Curing Oven Afterburner	CO-AB	Firebox Temperature ⁽¹⁾																	
IMF24, CM03, CM04, RFN10		Source-Specific Requirements: 4.2.13(a)	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]	Upon request by the Secretary, determine compliance with the visible emission requirements of 40CSR§2-3.1 in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Secretary.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
CO		Source-Specific Requirements: 4.2.13(b)	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);	Demonstrate compliance as required for emission point HE01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
B170, Rd_RM, Rd_CM, Rd_FP, IMF03, IMF08, IMF09, IMF25, IMF21, CM10, CM11, CM08, CM09, CE01, CE02, IMF06, IMF04, IMF13, IMF05, IMF01, GUT-EX, CO-HD, CO, SPN, RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9		Source-Specific Requirements: 4.2.13(c)	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;	Conduct visible emission monitoring in accordance with the procedures outlined under 45CSR7A when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
RM_REJ, S_REJ, IMF07, IMF10, IMF11, IMF12, IMF14, IMF15, IMF16, IMF17, IMF18		Source-Specific Requirements: 4.2.13(d)	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;	Comply with applicable requirements of 40CFR60, Subpart OOO; Conduct initial and 1/5 year Method 9 testing; submit applicable notifications and testing results; comply with recordkeeping and reporting requirements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												
Total Facility		Source-Specific Requirements: 4.2.13(e)	e. IMF01, HE01, CE01, and IMF05. Emission Points IMF01, HE01, CE01, and IMF05 are subject to the following visible emissions monitoring and compliance demonstration requirements: (1) In order to determine compliance with the opacity limits of 4.1.3(c), 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, CE01, and IMF05 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.	Conduct visible emission checks and/or opacity monitoring and recordkeeping for IMF01, HE01, CE01, and IMF05 at least once per calendar month with a maximum of 45 days between readings; perform Method 9 readings at a source within 72 hours of a Method 22 emission check where visible emissions are present; if Method 22 observations are reduced to quarterly and visible emissions are observed, return the observation frequency to monthly	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)												

Permittee: ROXUL USA, Inc. dba ROCKWOOL

Facility: RAN Facility

Permit Number: R14-0037

For the reporting period beginning 01/01/2021 and ending 12/31/2021

Form A - Annual Compliance Certification

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037		
For the reporting period beginning 01/01/2021 and ending 12/31/2021						
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
Total Facility	Source-Specific Requirements: 4.2.13(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	Maintain records of the visible emission opacity tests and checks with all required monitoring data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Source-Specific Requirements: 4.2.13(g)	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.	Submit report of any deviation of the allowable visible emission requirements discovered during a Method 9 observation to the Director of the DAQ within 10 calendar days	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Source-Specific Requirements: 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 BACT 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.	Maintain documentation from vendor showing that BACT outlet grain loading limits are met	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Source-Specific Requirements: 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	Prepare emission point map within 180 days of startup; update map as necessary; retain map on-site and make available to the Director or authorized representative upon request	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.2.16	Resin Tracking/N ₂ O Calculation To determine compliance with the annual CO ₂ e limit given under Table 4.1.5(a), the permittee shall monitor and record the information given under 4.2.16(a) and (b). The permittee shall then use this information to calculate N ₂ O emissions (based on an emission factor of 28.05 lb-N ₂ O/ton-resin solids [14 kg-N ₂ O/tonne-resin solids]) from the Melting Furnace, and along with established emission CO ₂ factors, to determine the annual CO ₂ e emissions. a. Annual amount (based on a rolling twelve month time period) of purchased resin (as solids) based on invoices. The amount may be corrected for binder not used or that is discarded and not applied in the production process; and b. Solid content in Phenolic Resin (PUF) based on vendor data or operator analysis.	Monitor and record the annual amount based on a rolling 12 month period of purchased resin based on invoices; monitor and record the solid content in PUF	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Source-Specific 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.	Conduct testing when designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01, GUT-EX, SPN, CO-HD, CO, CS, RFNE8, CE01, CM10	Source-Specific Requirements: 4.3.2	Emissions Point Performance Testing Within 60 days after achieving the maximum permitted production rate of the emission unit in question, but not later than 180 days after initial startup of the unit, 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: <i>[Not Verbatim]: Please see table 4.3.2 in the permit for Performance Testing Requirements</i>	Conduct initial performance tests on the units in Table 4.3.2 of the permit within 60 days after achieving the maximum permitted production rate of the emission unit in question, but not later than 180 days after initial startup	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01, GUT-EX, SPN, CO-HD, CO, CS, RFNE8, CE01, CM10	Source-Specific Requirements: 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: <i>[Not Verbatim]: Please see table 4.3.3 in the permit for Performance Testing Schedule</i>	After the initial performance test, conduct additional performance testing according to the Performance Testing Schedule in the permit	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
IMF01	Source-Specific Requirements: 4.3.4	Performance testing for pollutants monitored by CEMS (CO, NOx, 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.	Conduct performance testing on a schedule consistent with the required RATA testing, unless otherwise designated by the Secretary	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility	Source-Specific Requirements: 4.3.5	The permittee shall use the test methods specified in Table 4.3.6. unless granted approval in writing by the Director to use an alternative test method in a protocol submitted pursuant to 3.3.1(c). <i>[Not Verbatim]: Please see table 4.3.5 in the permit for Performance Test Methods</i>	Use the test method specified in the permit for performance testing unless granted approval by the Director to use an alternative test method	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
RM_REJ, S_REJ, IMF07, IMF10, IMF11, IMF12, IMF14, IMF15, IMF16, IMF17, IMF18	Source-Specific Requirements: 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.	Comply with applicable Performance Testing requirements as given under 40 CFR 60, Subpart A, Section §60.8 and Subpart OOO, Section §60.675	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

Form A - Annual Compliance Certification

Emission Unit ID		Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	Method or Means of Determining Compliance Status ¹	Was the source in compliance for the reporting period?	If no, how many deviations occurred during the reporting period?	If deviations occurred, indicate when deviations were reported?
IMF01, GUT-EX, SPN, CO-HD, CO, CS		Source-Specific Requirements: 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.	Meet performance test requirements as given in §63.1188, use test methods given in §63.1189, and determine compliance as outlined in §63.1190.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Source-Specific 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.	Maintain all records of monitoring information	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Source-Specific Requirements: 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.	Maintain all records of control equipment inspection and maintenance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Source-Specific Requirements: 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.	Maintain all records of malfunctions of control equipment	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)
Total Facility		Source-Specific 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.	Submit semi-annual reports of required monitoring by before September 15 and March 15, identifying all instances of deviation from permit requirements; Submit by March 15 a certification of compliance for the previous calendar year, noting any instances of non-compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 1st Half (January 1st through June 30th) <input type="checkbox"/> 2nd Half (July 1st through December 31st)

Permittee: ROXUL USA, Inc. dba ROCKWOOL

Facility: RAN Facility

Permit Number: R14-0037

For the reporting period beginning 01/01/2021 and ending 12/31/2021



Semiannual Monitoring Report - WVDAQ Facility ID 037-00108

1 message

Grant Morgan <Grant.Morgan@erm.com>

Tue, Mar 15, 2022 at 9:28 AM

To: "DEPAirQualityReports@wv.gov" <DEPAirQualityReports@wv.gov>

Cc: Ryan Durrill <ryan.durrill@rockwool.com>, Stacey Phillips <stacey.phillips@rockwool.com>, Jeff Twaddle <Jeff.Twaddle@erm.com>

Hello,

On behalf of Roxul USA, Inc. (dba ROCKWOOL), please find the attached Semiannual Monitoring Report as required by Permit No. R14-0037.

As DEP commences review, please reach out with questions and comments.

Thank you,

Grant Morgan, P.E. (WV)

ERM | 971 WV-34 | Hurricane, WV | 25526

mobile: 304.590.6160

mail: grant.morgan@erm.com | www.erm.com



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Semiannual Monitoring Report - 2nd Half 2021.pdf

1514K



March 15, 2022

Laura Crowder, Director
Division of Air Quality
West Virginia Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304-2345

Re: **Semiannual Monitoring Report**
ROCKWOOL USA, Inc., Kearneysville, WV (AIR Permit No. R14-0037)

Dear Ms. Crowder:

The ROCKWOOL USA, Inc. (ROCKWOOL) facility submits the enclosed Semiannual Monitoring Report for the period from July 1, 2021 until December 31, 2021.

The enclosed Semiannual Monitoring Report makes note of three (3) deviations for monitoring data, each of which has previously been communicated to the West Virginia Department of Environmental Protection (WVDEP) in previous compliance submittals. ROCKWOOL is preparing to submit an updated R14 permit application (at the time of Title V submittal) that will update the permit to reflect as-constructed conditions at the RAN site. The permitting action will result in a net decrease in emissions. RAN currently operates and will continue to operate in compliance with Federal and State requirements and site-wide emissions are below the limits established in R14-0037.

If you have any questions or comments regarding this submittal or require additional information, please contact our SHEQ Manager, Ryan Durrill, at (304) 830-6464 or via email at ryan.durrill@ROCKWOOL.com.



Permit No. R14-0037
Annual Compliance Certification

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Graves', with a long horizontal stroke extending to the right.

Mark Graves
Director of Operations
ROCKWOOL USA, Inc.

Cc: Attn: Director, Air & Radiation Division
United States Environmental Protection Agency, Region 3 (Mid-Atlantic)
1650 Arch Street
Philadelphia, PA 19103-2029


Ryan Durrill - ROCKWOOL USA, Inc.
Jeff Twaddle - Environmental Resources Management, Inc.



WV Division of Air Quality

601 57th Street SE
Charleston, WV 25304
Telephone Number: (304) 926-0475
Fax Number: (304) 926-0478

TITLE V OPERATING PERMIT SEMI-ANNUAL MONITORING REPORT

Name of Permittee: Roxul USA, Inc. dba ROCKWOOL	Name of Facility: RAN Mineral Wool Production Facility
Permit Number: R30- -	AFS Plant ID Number: 03-54-037-00108
Mailing Address: 665 Northport Avenue Kearneysville, WV 25430	Contact Person: Ryan Durrill Title: SHEQ Manager Telephone: (304) 830-6464
For the reporting period beginning 07 / 01 /2021 and ending 12 / 31 /2021	
Based upon the specific test methods, monitoring, record keeping and/or reporting required under the permittee's Title V Operating Permit and any other information reasonably available, I, the undersigned, hereby certify for the reporting period stated above that based on information and belief formed after reasonable inquiry, the statements and information in this document and attachments are true, accurate, and complete. ¹	
Responsible Official ²	
Name: Mark Graves	Title: Director of Operations
Signature: 	Date: 03/14/2022
Note: Please check all required attachments included with this Semi-Annual Monitoring Report.	
<input checked="" type="checkbox"/> Form B - Semi-Annual Monitoring Report ³	<input checked="" type="checkbox"/> Form C - Deviation Report ³
¹ Please note that the West Virginia Code states that any person who knowingly misrepresents any material fact in an application, record, report, plan or other document filed or required to be maintained is guilty of a misdemeanor and may be subject to fines and/or imprisonment in accordance with W.V.A. Code §22-5-6(b). ² A Responsible Official as defined by 45CSR§30-2.38. must sign this certification. ³ Submit signed electronic copy by e-mail to: DEPAirQualityReports@wv.gov	

Note: Print and scan or print to a PDF file.
E-mail the completed PDF form to the address above.

Form B - Semi-Annual Monitoring Report																
Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037												
For the reporting period beginning 01/01/2021 and ending 12/31/2021																
Emission Unit ID	Condition Number of Permit Requirement	Monitoring, Data, or Analysis Required by the Permit	Separate Monitoring Report?	Date of Separate Report Submittal or Attachment ID												
Total Facility	Source-Specific Requirements: 4.2.3	<p>Material/Production Throughputs</p> <p>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:</p> <p>Table 4.2.3: Facility Quantities Monitored/Recorded</p> <table border="1"> <thead> <tr> <th>Quantity Monitored/Recorded</th> <th>Emission Unit(s)</th> <th>Measured Units</th> </tr> </thead> <tbody> <tr> <td>Portable Melt Crushing</td> <td>Portable Melt Crusher</td> <td>Hours of Operation/year</td> </tr> <tr> <td>Emergency Fire Pump Hours of Operation⁽¹⁾</td> <td>EFP1</td> <td>Hours of Operation/Year</td> </tr> <tr> <td>Storage Tank Throughputs</td> <td>Various</td> <td>Gallons/year</td> </tr> </tbody> </table> <p>(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.</p>	Quantity Monitored/Recorded	Emission Unit(s)	Measured Units	Portable Melt Crushing	Portable Melt Crusher	Hours of Operation/year	Emergency Fire Pump Hours of Operation ⁽¹⁾	EFP1	Hours of Operation/Year	Storage Tank Throughputs	Various	Gallons/year	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>
Quantity Monitored/Recorded	Emission Unit(s)	Measured Units														
Portable Melt Crushing	Portable Melt Crusher	Hours of Operation/year														
Emergency Fire Pump Hours of Operation ⁽¹⁾	EFP1	Hours of Operation/Year														
Storage Tank Throughputs	Various	Gallons/year														
IMF05	Source-Specific Requirements: 4.2.5	<p>Coal Fluidized Bed Dryer</p> <p>To determine continuous compliance with the maximum temperature requirement given under Table 4.1.3(d)- footnote (1), the permittee shall install and maintain instrumentation in the Coal Fluidized Bed Dryer so as to monitor and record the temperature in the drying zone of the dryer.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
IMF01	Source-Specific Requirements: 4.2.6	<p>Melting Furnace CEMS (IMF01)</p> <p>Within 60 days after achieving the maximum design mineral wool production rate at which the facility will be operated, but not later than 180 days after initial startup, the permittee shall, to show continuous compliance with the CO, NOx, and SO₂ emission limits as given under Table 4.1.4(a), install and operate a Continuous Emissions Monitoring System (CEMS) for monitoring the emissions of CO, NOx, and SO₂ 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.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>RATA Report - 1/4/2022</p> <p>Attachment ID:</p>												
CM12, CM13	Source-Specific Requirements: 4.2.7	<p>Fleece Application Station</p> <p>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:</p> <p>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</p> <p>b. The average monthly as-applied VOC/HAP content (in lb-VOC/lb-coating and lb-HAP/lb coating) as based on the procedures under 40 CFR 63, Subpart JJJ, Section §63.3370(a).</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9	Source-Specific Requirements: 4.2.8	<p>Rockfon Line Coatings/Glue Usage</p> <p>To determine continuous compliance with the VOC emission limit and the low-VOC BACT requirements given under 4.1.7(a) and (b), the permittee shall monitor and record the monthly and twelve-month rolling total of the amount (in tons) of VOCs used in the Rockfon coating and gluing process. The amount shall be based on actual material properties (VOC 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 used in the Rockfon coating and gluing 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.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
EFP1	Source-Specific Requirements: 4.2.9	<p>Ultra Low Sulfur Fuel</p> <p>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.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
IMF02, HE02	Source-Specific Requirements: 4.2.10	<p>Cooling Tower</p> <p>For the purposes of demonstrating initial and continuing compliance with the operational limits set forth in Table 4.1.11 (b)(1), the permittee shall, for both cooling towers, within 180 days of startup, take an initial grab sample of the cooling tower circulating water and analyze such to determine the total solids content of the cooling tower circulating water. Thereafter, the permittee shall test for solids content on an annual basis (with no more than 14 months between tests).</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												

Form B - Semi-Annual Monitoring Report																
Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037												
For the reporting period beginning 01/01/2021 and ending 12/31/2021																
Emission Unit ID	Condition Number of Permit Requirement	Monitoring, Data, or Analysis Required by the Permit	Separate Monitoring Report?	Date of Separate Report Submittal or Attachment ID												
P_MARK	Source-Specific Requirements: 4.2.11	<p>Product Marking</p> <p>To determine continuous compliance with the Product Marking (P_MARK) VOC emission limits and given under 4.1.11 (c)(3), the permittee shall monitor and record the monthly and twelve-month rolling total of the amount (in tons) of VOCs used in the Product Marking process. The amount shall be based on actual material properties (VOC 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 used in the Product Marking 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.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
IMF01, GUT-EX, SPN, CO-HD, CO, CS	Source-Specific Requirements: 4.2.12	<p>Control Device Monitoring</p> <p>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:</p> <p>Table 4.2.12: Control Device Parameters Monitored/Recorded</p> <table border="1"> <thead> <tr> <th>Control Device</th> <th>Control Device ID</th> <th>Parameter(s)</th> </tr> </thead> <tbody> <tr> <td>Melting Furnace Baghouse</td> <td>IMF01-BH</td> <td>Pressure Drop</td> </tr> <tr> <td>WESP</td> <td>WESP</td> <td>Secondary Voltage, Secondary Amperage</td> </tr> <tr> <td>Curing Oven Afterburner</td> <td>CO-AB</td> <td>Firebox Temperature⁽¹⁾</td> </tr> </tbody> </table> <p>(1) Pursuant to 40 CFR 63, Subpart DDD, §63.1182.</p>	Control Device	Control Device ID	Parameter(s)	Melting Furnace Baghouse	IMF01-BH	Pressure Drop	WESP	WESP	Secondary Voltage, Secondary Amperage	Curing Oven Afterburner	CO-AB	Firebox Temperature ⁽¹⁾	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>MACT SemiAnnual Report - 1/31/2022</p> <p>Attachment ID:</p>
Control Device	Control Device ID	Parameter(s)														
Melting Furnace Baghouse	IMF01-BH	Pressure Drop														
WESP	WESP	Secondary Voltage, Secondary Amperage														
Curing Oven Afterburner	CO-AB	Firebox Temperature ⁽¹⁾														
IMF24, CM03, CM04, RFN10	Source-Specific Requirements: 4.2.13(a)	<p>Visible Emissions Compliance Demonstrations</p> <p>Visible emissions Monitoring, Compliance Demonstration, Recording and Reporting shall be in accordance with the following requirements:</p> <p>a. 45CSR2</p> <p>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]</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
CO	Source-Specific Requirements: 4.2.13(b)	<p>b. 45CSR6</p> <p>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);</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
B170, Rd_RM, Rd_CM, Rd_FP, IMF03, IMF08, IMF09, IMF25, IMF21, CM10, CM11, CM08, CM09, CE01, CE02, IMF06, IMF04, IMF13, IMF05, IMF01, GUT-EX, CO-HD, CO, SPN, RFNE1, RFNE2, RFNE3, RFNE4, RFNE5, RFNE6, RFNE7, RFNE8, RFNE9	Source-Specific Requirements: 4.2.13(c)	<p>c. 45CSR7</p> <p>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;</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>///</p> <p>Attachment ID:</p>												
RM_REJ, S_REJ, IMF07, IMF10, IMF11, IMF12, IMF14, IMF15, IMF16, IMF17, IMF18	Source-Specific Requirements: 4.2.13(d)	<p>d. 40 CFR 60, Subpart OOO</p> <p>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;</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>NSPS OOO Visual Emissions Report - 1/7/2022</p> <p>Attachment ID:</p>												

Form B - Semi-Annual Monitoring Report				
Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037
For the reporting period beginning 01/01/2021 and ending 12/31/2021				
Emission Unit ID	Condition Number of Permit Requirement	Monitoring, Data, or Analysis Required by the Permit	Separate Monitoring Report?	Date of Separate Report Submittal or Attachment ID
Total Facility	Source-Specific Requirements: 4.2.13(e)	e. IMF01, HE01, CE01, and IMF05. Emission Points IMF01, HE01, CE01, and IMF05 are subject to the following visible emissions monitoring and compliance demonstration requirements: (1) 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, CE01, and IMF05 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:
Total Facility	Source-Specific Requirements: 4.2.13(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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:
Total Facility	Source-Specific Requirements: 4.2.13(g)	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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:
IMF01	Source-Specific Requirements: 4.2.16	Resin Tracking/N ₂ O Calculation To determine compliance with the annual CO ₂ e limit given under Table 4.1.5(a), the permittee shall monitor and record the information given under 4.2.16(a) and (b). The permittee shall then use this information to calculate N ₂ O emissions (based on an emission factor of 28.05 lb-N ₂ O/ton-resin solids [14 kg-N ₂ O/tonne-resin solids]) from the Melting Furnace, and along with established emission CO ₂ factors, to determine the annual CO ₂ e emissions. a. Annual amount (based on a rolling twelve month time period) of purchased resin (as solids) based on invoices. The amount may be corrected for binder not used or that is discarded and not applied in the production process; and b. Solid content in Phenolic Resin (PUF) based on vendor data or operator analysis.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:
Total Facility	Source-Specific 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:
IMF01, GUT-EX, SPN, CO-HD, CO, CS, RFNEX, CE01, CM10	Source-Specific Requirements: 4.3.2	Emissions Point Performance Testing Within 60 days after achieving the maximum permitted production rate of the emission unit in question, but not later than 180 days after initial startup of the unit, 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: <i>[Not Verbatim]: Please see table 4.3.2 in the permit for Performance Testing Requirements</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Testing Report Submittal - 12/30/2021 Attachment ID:
IMF01, GUT-EX, SPN, CO-HD, CO, CS, RFNEX, CE01, CM10	Source-Specific Requirements: 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: <i>[Not Verbatim]: Please see table 4.3.3 in the permit for Performance Testing Schedule</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:

Form B - Semi-Annual Monitoring Report

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility	Permit Number: R14-0037	
For the reporting period beginning 01/01/2021 and ending 12/31/2021				
Emission Unit ID	Condition Number of Permit Requirement	Monitoring, Data, or Analysis Required by the Permit	Separate Monitoring Report?	Date of Separate Report Submittal or Attachment ID
RM_REJ, S_REJ, IMF07, IMF10, IMF11, IMF12, IMF14, IMF15, IMF16, IMF17, IMF18	Source-Specific Requirements: 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NSPS OOO Visual Emissions Report - 1/7/2022 Attachment ID:
IMF01, GLUT-EX, SPN, CO-HD, CO, CS	Source-Specific Requirements: 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Testing Report Submittal - 12/30/2021 Attachment ID:
Total Facility	Source-Specific 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:
Total Facility	Source-Specific Requirements: 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	/// Attachment ID:

Form C - Deviation Report¹

Permittee: ROXUL USA, Inc. dba ROCKWOOL		Facility: RAN Facility		Permit Number: R14-0037	Permit Number: R14-0038
For the reporting period beginning 01/01/2021 and ending 12/31/2021					
Emission Unit ID	Condition Number of Permit Requirement	Term or Condition that is the Basis for Certification	What was the deviation ² from the Term or Condition?	What was the cause for the deviation ³ ? And what type of corrective measures were taken?	Deviation Time Period Date (mo/day/yr) Time (hr min)
IMF01	4.2.12	Melt Furnace excess oxygen 3-hour averaging period	For one instance of a single 3-hour averaging period, the excess oxygen was monitored below the levels established during the initial performance testing.	The excess oxygen monitoring parameter for the Melt Furnace fell slightly below the parameter of 1% established during initial performance testing. The excess oxygen deviation is believed to have occurred during a period of operator error. Existing alarms on the Melt Furnace are in place for the measured oxygen parameters within the melt furnace. New alarms have been established to provide warning and alarm feedbacks on the calculated excess oxygen parameter, used to demonstrate compliance. The implementation and training on these alarms should prevent future occurrences of deviations. The Melt Furnace operated for 626 hours during the semiannual period, with 99.5% of operations demonstrating compliance.	11/3/2021 9:00 - 11:00 - 3 hour averaging period
HE01	4.2.12	Curing Oven Afterburner firebox temperature	For one instance of a single 3-hour averaging period, the Curing Oven Afterburner temperature was monitored below the levels established during the initial performance testing.	The monitoring parameter for Curing Oven Afterburner temperature was set to a lower level, 900C, during the performance testing. The monitoring alarm was not reset to the normal operating parameter of 950 C until it was discovered on November 3, 2021. There have been no instances of deviation from the 3-hour averaging period since the set point was re-established at normal operating conditions. The Curing Oven Afterburner operated for 663 hours during this semiannual period, with 99.5% of operations demonstrating compliance.	11/3/2021 12:00 - 14:00 - 3 hour averaging period
IMF01	4.3.2	HE01 Carbon Monoxide (CO) measured emission rate	The measured CO concentrations at the WESP during initial performance testing exceeded the limits established in R14-0037 Table 4.1.5 (a).	During the initial compliance testing for the WESP exhaust, which includes the Gutter Exhaust (GUT-EX), Spinning Chamber (SPN), Curing Oven Hoods (CO-HD), Curing Oven (CO) and Cooling Section (CS), results indicate that small concentrations of Carbon Monoxide (CO) are conveyed via draft from the Melting Furnace into the Spinning Chamber. This draft or carryover from the Melt Furnace to the Spinning Chamber results in an exceedance of CO on the WEST exhaust as established in R14-0037 Table 4.1.5(a). The RATA compliance testing demonstrates that the CO generated in the Melting Furnace is measurably less than the permit limit established in R14-0037 Table 4.1.4(a) such that the total site-wide actual measured emissions for CO remain less than the PTE for CO. ROCKWOOL plans to submit an updated application to reflect the CO transfer in R14-0037A.	All periods of operation in the semi-annual period