



**STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE**

PERMIT TO CONSTRUCT / MODIFY AND OPERATE AIR CONTAMINANT SOURCE(S)

Permit Number: 079446

Facility (Permittee): Barton Malow Company – dba Ultium Cells / Nightsky

Facility ID: 60-0361

Facility Address: 301 Donald F Ephlin Parkway, Spring Hill
Maury County

Facility Classification: True Minor

Federal Requirements: NSPS 40 CFR Part 60, Subpart OOO

Facility Description: Rock Crushing and Sizing Operation

Permit 079446, consisting of 25 pages is hereby issued on November 24, 2021, pursuant to the Tennessee Air Quality Act and by the Technical Secretary, Tennessee Air Pollution Control Board, Department of Environment and Conservation. This permit supersedes all previously issued permits for this/these source(s). This permit expires on August 1, 2031. The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations (TAPCR).

Michelle W. Owenby
Technical Secretary
Tennessee Air Pollution Control Board

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

Section I – Sources Included in this Construction / Operating Permit

FACILITY DESCRIPTION			
Source Number	Source Description	Status	Control Device/Equipment
01	Portable J50 Jaw Crusher #1 with Onboard 350 HP Diesel-Fired Engine, Portable R230 Screen #1 with Onboard 225 HP Diesel-Fired Engine, Portable I44 Impact Crusher #1 with Onboard 360 HP Diesel-Fired Engine, Portable 80ST Stacker #1 with Onboard 74 HP Diesel-Fired Engine, Portable 80ST Stacker #2 with Onboard 74 HP Diesel-Fired Engine, and Portable 80ST Stacker #3 with Onboard 74 HP Diesel-Fired Engine.	New	Wet Suppression
02	Portable J45 Jaw Crusher #2 with Onboard 350 HP Diesel-Fired Engine, Portable R155 Screen #2 with Onboard 127 HP Diesel-Fired Engine, Portable I44 Impact Crusher #2 with Onboard 360 HP Diesel-Fired Engine, Portable 80ST Stacker #4 with 74 HP Diesel-Fired Engine, Portable 80ST Stacker #5 with Onboard 74 HP Diesel-Fired Engine, and Portable 80ST Stacker #6 with Onboard 74 HP Diesel-Fired Engine.	New	Wet Suppression
03	Portable R230 Screen #3 - Clay Scalper with Onboard 225 HP Diesel-Fired Engine, and Portable 100ST Stacker #7 with Onboard 74 HP Diesel Fired Engine.	New	Wet Suppression

Section II – Permit Record

Permit Type	Description of Permit Action	Issue Date
Initial	Initial combined permit	November 24, 2021

Section III - General Permit Conditions

G1. Responsible Person

The application that was utilized in the preparation of this permit is dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, respectively and are signed by Craig Fenton, Project Manager, the Responsible Person for the permittee. A **notification dated November 23, 2021, was received by the Division that Bruce Rysztak, Vice President, is the new Responsible Official for this facility** The Responsible Person may be the owner, president, vice-president, general partner, plant manager, environmental/health/safety coordinator, or other person that is able to represent and bind the facility in environmental permitting affairs. If this Responsible Person terminates their employment or is assigned different duties and is no longer the person to represent and bind the permittee in environmental permitting affairs, the new Responsible Person for the permittee shall notify the Technical Secretary of the change in writing. The Notification shall include the name and title of the new Responsible Person assigned by the permittee to represent and bind the permittee in environmental permitting affairs, and the date the new Responsible Person was assigned these duties.

Should a change in the Responsible Person occur, the new Responsible Person must submit the Notification provided in Appendix 1 of this permit no later than 30 days after the change. A separate notification shall be submitted for each subsequent change in Responsible Person.

TAPCR 1200-03-09-.03(8)

G2. Application and Agreement Letters

This source shall operate in accordance with the terms of this permit, the information submitted in the approved permit application referenced in **Condition G1**, and any documented agreements made with the Technical Secretary.

TAPCR 1200-03-09-.01(1)(d)

G3. Submittals

Unless otherwise specified within this permit, the permittee shall submit all plans, checklists, certifications, notifications, test protocols, reports, applications, and fees to the attention of the following Division Programs at the addresses indicated in the table below:

Permitting Program	Compliance Validation Program	Field Services Program
<ul style="list-style-type: none">• Notifications• Startup certifications• Applications• NSPS reports• MACT/GACT/NESHAP reports• Fees• Emission Statements	<ul style="list-style-type: none">• Test protocols• Emission test reports• Visible emission evaluation reports	<ul style="list-style-type: none">• Semiannual reports• Annual compliance certifications
Division of Air Pollution Control William R. Snodgrass TN Tower, 15 th Floor 312 Rosa L. Parks Avenue Nashville, TN 37243 Air.Pollution.Control@tn.gov		Columbia Environmental Field Office Division of Air Pollution Control 1421 Hampshire Pike Columbia, TN 38401 APC.ColuEFO@tn.gov

The permittee shall submit the information identified above as requested in this permit. In lieu of submitting this information to the mailing addresses above, the permittee may submit the information to the attention of the respective Division Programs via e-mail in Adobe Portable Document format (PDF) to the specified email address.

TAPCR 1200-03-09-.03(8)

G4. Notification of changes

The permittee shall notify the Technical Secretary for any of the following changes to a permitted air contaminant source which would not be a modification requiring a new construction permit:

- change in air pollution control equipment that does not result in an increase or otherwise meet the definition of a modification
- change in stack height or diameter
- change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

The permittee must submit the Notification provided in Appendix 2 of this permit 30 days before the change is commenced.

TAPCR 1200-03-09-.02(7)

G5. Permit Transference

- A. This permit is not transferable from one air contaminant source to another air contaminant source or from one location to another location. The permittee must submit a construction permit application for a new source to the Permitting Program not less than 90 days prior to the estimated starting date of these events. If the new source will be subject to major New Source Review, the application must be submitted not less than 120 days in advance of the estimated starting date of these events.

TAPCR 1200-03-09-.03(6)(b) and 1200-03-09-.01(1)(b)

- B. In the event an ownership change occurs at this facility, the new owner must submit the notification provided in Appendix 3 of this permit. The written notification must be submitted by the new owner to the Permitting Program no later than 30 days after the ownership change occurs. If the change in ownership results in a change in Responsible Person for the facility, notification of the change in Responsible Person must also be submitted, as specified in **Condition G1**.

TAPCR 1200-03-09-.03(6)(a) and (b)

G6. Operating Permit Application Submittal

- A. The permittee shall apply for an operating permit renewal not less than 60 days prior to the permit's expiration date.

TAPCR 1200-03-09-.02(3)(a)

- B. Operation of each air contaminant source shall be in accordance with the provisions and stipulations set forth in this permit, all provisions of the Tennessee Division of Air Pollution Control Regulations, and all provisions of the Tennessee Air Quality Act.

TAPCR 1200-03-09-.02(6)

G7. Startup Certification for New or Modified Source(s)

The startup certification provided in Appendix 4 shall be submitted to the Permitting Program once an air contaminant source has started up. A separate startup certification must be submitted for each air contaminant source included in this permit. Startup of the air contaminant source shall be the date the new or modified air contaminant source began operation for the production of product for sale, use as raw materials, or steam or heat production under the terms of this permit. A separate startup certification must be submitted for each air contaminant source (Sources 01, 02, and 03) included in this permit.

Compliance Method: The startup certification provided in Appendix 4 shall be submitted no later than 30 days after each air contaminant source has begun startup.

TAPCR 1200-03-09-.03(8)

G8. Fees

The air contaminant source(s) identified in this permit shall comply with the requirements for payment of applicable annual emission fees to the Tennessee Division of Air Pollution Control based on the Administrative Fees Schedule I provided in Appendix 5 of this permit. The fee must be paid to the Division in full by the first day of the month that the fee is due (determined from Appendix 5). (Note: not all facilities are required to pay annual emission fees)

TAPCR 1200-03-26-.02

G9. General Recordkeeping Requirements

A. All recordkeeping requirements for all data required to be recorded shall follow the following schedules:

For Daily Recordkeeping	For Weekly Recordkeeping	For Monthly Recordkeeping
No later than seven days from the end of the day for which the data is required.	No later than seven days from the end of the week for which the data is required.	No later than 30 days from the end of the month for which the data is required.

B. The information contained in logs, records, and submittals required by this permit shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request. Computer-generated logs are acceptable. Compliance is assured by retaining the logs, records, and submittals specified in this permit for a period of not less than five years at the facility's address.

TAPCR 1200-03-10-.02(2)(a)

G10. Routine Maintenance Requirements

The permittee shall maintain and repair the emission source, associated air pollution control device(s), and compliance assurance monitoring equipment as required to maintain and assure compliance with the specified emission limits.

TAPCR 1200-03-09-.03(8)

Compliance Method: Records of all repair and maintenance activities required above shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years. The date each maintenance and repair activity began shall be entered in the log no later than seven days following the start of the repair or maintenance activity, and the completion date shall be entered in the log no later than seven days after activity completion.

G11. Visible and Fugitive Emissions

A. Unless otherwise specified, visible emissions from this facility shall not exhibit greater than 20% opacity, except for one six-minute period in any one hour period, and for no more than four six-minute periods in any 24 hour period. A stack is defined as any chimney, flue, conduit, exhaust, vent, or opening of any kind whatsoever, capable of, or used for, the emission of air contaminants.

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6)

B. The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Reasonable precautions shall include, but are not limited to, the following:

- (a) Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;

- (b) Application of asphalt, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which can create airborne dusts;
- (c) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in TAPCR 1200-03-20. A malfunction is defined as, any sudden and unavoidable failure of process equipment or for a process to operate in an abnormal and unusual manner. Failures that are caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

Compliance Method: Fugitive emissions shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.

TAPCR 1200-03-08-.01(1) and 1200-03-08-.01(2)

- C. Fugitive emissions from roads and parking areas shall not exhibit greater than 10% opacity.

Compliance Method: When required to demonstrate compliance, fugitive emissions from roads and parking areas shall be determined by utilizing Tennessee Visible Emissions Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and August 24, 1984.

TAPCR 1200-03-08-.03

G12. Facility-wide Limitations

Not Applicable

G13. NSPS/NESHAP/MACT/GACT Standards

The following source(s) are subject to and shall comply with all applicable requirements of each NSPS/NESHAP/MACT/GACT standard as indicated in the table below, including the General Provisions identified in Appendix 8. The applicable requirements of each standard are incorporated into this permit pursuant to TAPCR 1200-03-09-.03(8).

Source	NESHAP/MACT/GACT	NSPS
01, 02, and 03	Not Applicable	40 CFR Part 60, Subpart OOO

TAPCR 1200-03-09-.03(8)

Compliance Method: Compliance methods are provided in the source-specific conditions in **Section V** of this permit.

G14. VOC and NO_x Emission Statement

Not Applicable

G15. This source shall not operate unless the wet suppression system is in operation. Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as necessary to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. Days that the source is not in operation shall be noted. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

Section IV – Federal and/or State Only Requirements

See Section V – Source Specific Permit Conditions.

Section V - Source Specific Permit Conditions

Source No	Source Description
01	Portable J50 Jaw Crusher #1 with Onboard 350 HP Diesel-Fired Engine, Portable R230 Screen #1 with Onboard 225 HP Diesel-Fired Engine, Portable I44 Impact Crusher #1 with Onboard 360 HP Diesel-Fired Engine, Portable 80ST Stacker #1 with Onboard 74 HP Diesel-Fired Engine, Portable 80ST Stacker #2 with Onboard 74 HP Diesel-Fired Engine, and Portable 80ST Stacker #3 with Onboard 74 HP Diesel-Fired Engine. Wet Suppression Control.

S1-1. Statement(s) of Design Capacity

The design capacity (in tons per hour) of crushers, screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

Portable Rock Crushing, and Sizing Operation #1:				
Operation/Equipment	I.D. No.	Size	Manufacture Date/Status	Capacity (ton/hr)
Portable J50 Jaw Crusher #1	Jaw Crusher #1	----	2018/NSPS	400
R230 Screen #1	Screen #1	6'x 20'	2019/NSPS	400

I44 Impact Crusher #1	Impactor #1	----	2021/NSPS	400
80ST Stacker #1	Stacker #1	36'	2021/NSPS	400
80ST Stacker #2	Stacker #2	36'	2021/NSPS	400
80ST Stacker #3	Stacker #3	36'	2021/NSPS	400

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity rate a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the source. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. These documents shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S1-2. Production Limitation(s)

The production rate of this source shall not exceed **600,000** tons per year. Should the permittee need to modify the source(s) in a manner that increases the capacity, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8), 1200-03-10-.02(2)(a), and application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: The permittee shall maintain a log of the actual monthly production in the format below (see example), or in an alternative format, which provides the same information. The log shall be retained in accordance with **Condition G9**.

Daily Log of Production- Source 60-0361-01

Date	Production (ton)	Date	Production (ton)	Date	Production (ton)
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			
Total(s) for the month of _____, 20__					

Monthly Log of Production- Source 60-0361-01

Month	Production (ton)	Month	Production (ton)	Month	Production (ton)
January		May		September	
February		June		October	
March		July		November	
April		August		December	
Total(s) for calendar year 20__					

S1-3. Operating Hour Limitation(s)

Not Applicable

S1-4. Emission Limitation(s)

Fugitive Particulate Matter (PM) emitted from the source shall not exceed **45.14** pounds per hour (lbs/hr) on a daily average basis.

TAPCR 1200-03-07-.03(1) and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this emission limitation is assured by compliance with **Conditions G15**, and **S1-1**, and the use of emission factors from AP-42, Chapter 11, Section 19, Table 11.19.2-2, for Crushed Stone Processing Operations, Supplement to 5th Ed., 08/04.

Federal and/or State Requirements

F1-1. Source Specific NSPS Visible Emissions Limitations

- A. Visible emissions from the NSPS Portable J50 Jaw Crusher #1 (ID# Jaw Crusher #1), and NSPS Portable I44 Impact Crusher #1 (ID# Impactor Crusher #1) shall not exhibit greater than 12% opacity as determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average).
- B. Visible emissions from the NSPS Portable R230 Screen #1 (ID# Screen #1), NSPS Portable 80ST Stacker #1 (ID# Stacker #1), NSPS Portable 80ST Stacker #2 (ID# Stacker #2), and NSPS Portable 80ST Stacker #3 (ID# Stacker #3), shall not exhibit greater than 7% opacity as determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average).

40 CFR Part 60 Subpart OOO, TAPCR 1200-03-09-.03(8), and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this limitation is assured by the results of performance tests required by **Condition F1-2**.

F1-2. Source Specific NSPS New Performance Test

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F1-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plant (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F1-1** of this permit. At least 30 days prior to this test, the Division's Compliance Validation Program at (615) 532-0554 or via email at Air.Pollution.Control@tn.gov shall be notified. Said notification shall include the test protocol.

The report shall be submitted to the Compliance Validation Program at the address listed below or via e-mail:

Tennessee Dept. of Environment & Conversation Division of Air Pollution Control Compliance Validation Program William R. Snodgrass Tennessee Tower, 15 th Floor 312 Rosa L. Parks Avenue Nashville, TN 37243	<u>or</u>	Adobe Portable Document Format (PDF) Air.Pollution.Control@tn.gov
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40 CFR §§60.8 and §60.93 and TAPCR 1200-03-09-.03(8)

F1-3. Source-Specific NSPS “Non-Road Engine”

The Portable J50 Jaw Crusher #1 with Onboard 350 HP Diesel-Fired Engine, Portable R230 Screen #1 with Onboard 225 HP Diesel-Fired Engine, Portable I44 Impact Crusher #1 with Onboard 360 HP Diesel-Fired Engine, Portable 80ST Stacker #1 with Onboard 74 HP Diesel-Fired Engine, Portable 80ST Stacker #2 with Onboard 74 HP Diesel-Fired Engine, and Portable 80ST Stacker #3 with Onboard 74 HP Diesel-Fired Engine are self-propelled, and the engines that power each unit serve a dual purpose by both propelling itself and powering the operation of each unit. The engine is an integral part of each mobile unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non-road Engines.

TAPCR 1200-03-09-.03(8), 40 CFR §1068.30 and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer's information for the above equipment. This information shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
02	Portable J45 Jaw Crusher #2 with Onboard 350 HP Diesel-Fired Engine, Portable R155 Screen #2 with Onboard 127 HP Diesel-Fired Engine, Portable I44 Impact Crusher #2 with Onboard 360 HP Diesel-Fired Engine, Portable 80ST Stacker #4 with 74 HP Diesel-Fired Engine, Portable 80ST Stacker #5 with Onboard 74 HP Diesel-Fired Engine, and Portable 80ST Stacker #6 with Onboard 74 HP Diesel-Fired Engine. Wet Suppression Control.

S2-1. Statement(s) of Design Capacity

The design capacity (in tons per hour) of crushers, screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

Portable Rock Crushing, and Sizing Operation #2:				
Operation/Equipment	I.D. No.	Size	Manufacture Date/Status	Capacity (ton/hr)
Portable J45 Jaw Crusher #2	Jaw Crusher #2	----	2021/NSPS	400
R155 Screen #2	Screen #2	5'x 16'	2021/NSPS	400
I44 Impact Crusher #2	Impactor #2	----	2021/NSPS	400
80ST Stacker #4	Stacker #4	36'	2021/NSPS	400
80ST Stacker #5	Stacker #5	36'	2021/NSPS	400
80ST Stacker #6	Stacker #6	36'	2021/NSPS	400

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity rate a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the source. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. These documents shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S2-2. Production Limitation(s)

The production rate of this source shall not exceed **600,000** tons per year. Should the permittee need to modify the source(s) in a manner that increases the capacity, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8), 1200-03-10-.02(2)(a), and application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: The permittee shall maintain a log of the actual monthly production in the format below (see example), or in an alternative format, which provides the same information. The log shall be retained in accordance with **Condition G9**.

Daily Log of Production- Source 60-0361-02

Date	Production (ton)	Date	Production (ton)	Date	Production (ton)
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			
Total(s) for the month of _____, 20__					

Monthly Log of Production- Source 60-0361-02

Month	Production (ton)	Month	Production (ton)	Month	Production (ton)
January		May		September	
February		June		October	
March		July		November	
April		August		December	
Total(s) for calendar year 20__					

S2-3. Operating Hour Limitation(s)

Not Applicable

S2-4. Emission Limitation(s)

Fugitive Particulate Matter (PM) emitted from the source shall not exceed **45.14** pounds per hour (lbs/hr) on a daily average basis.

TAPCR 1200-03-07-.03(1) and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this emission limitation is assured by compliance with **Conditions G15**, and **S2-1**, and the use of emission factors from AP-42, Chapter 11, Section 19, Table 11.19.2-2, for Crushed Stone Processing Operations, Supplement to 5th Ed., 08/04.

Federal and/or State Requirements

F2-1. Source Specific NSPS Visible Emissions Limitations

- A. Visible emissions from the NSPS Portable J45 Jaw Crusher #2 (ID# Jaw Crusher #2), and NSPS Portable I44 Impact Crusher #2 (ID# Impactor #2) shall not exhibit greater than 12% opacity as determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average).
- B. Visible emissions from the NSPS Portable R155 Screen #2 (ID# Screen #2), NSPS Portable 80ST Stacker #4 (ID# Stacker #4), NSPS Portable 80ST Stacker #5 (ID# Stacker #5), and NSPS Portable 80ST Stacker #6 (ID# Stacker #6), shall not exhibit greater than 7% opacity as determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average).

40 CFR Part 60 Subpart OOO, TAPCR 1200-03-09-.03(8), and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this limitation is assured by the results of performance tests required by **Condition F2-2**.

F2-2. Source Specific NSPS New Performance Test

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F2-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plant (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F2-1** of this permit. At least 30 days prior to this test, the Division's Compliance Validation Program at (615) 532-0554 or via email at Air.Pollution.Control@tn.gov shall be notified. Said notification shall include the test protocol.

The report shall be submitted to the Compliance Validation Program at the address listed below or via e-mail:

Tennessee Dept. of Environment & Conversation
Division of Air Pollution Control
Compliance Validation Program
William R. Snodgrass Tennessee Tower, 15th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

or Adobe Portable Document Format (PDF)
Air.Pollution.Control@tn.gov

40 CFR §§60.8 and §60.93 and TAPCR 1200-03-09-.03(8)

F2-3. Source-Specific NSPS "Non-Road Engine"

Portable J45 Jaw Crusher #2 with Onboard 350 HP Diesel-Fired Engine, Portable R155 Screen #2 with Onboard 127 HP Diesel-Fired Engine, Portable I44 Impact Crusher #2 with Onboard 360 HP Diesel-Fired Engine, Portable 80ST Stacker #4 with 74 HP Diesel-Fired Engine, Portable 80ST Stacker #5 with Onboard 74 HP Diesel-Fired Engine, and Portable 80ST Stacker #6 with Onboard 74 HP Diesel-Fired Engine are self-propelled, and the engines that power each unit serve a dual purpose by both propelling itself and powering the operation of each unit. The engine is an integral part of each mobile unit and meets the definition of "non-road engine" in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non-road Engines.

TAPCR 1200-03-09-.03(8), 40 CFR §1068.30 and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer's information for the above equipment. This information shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
03	Portable R230 Screen #3 - Clay Scalper with Onboard 225 HP Diesel-Fired Engine, and Portable 100ST Stacker #7 with Onboard 74 HP Diesel Fired Engine. Wet Suppression Control.

S3-1. Statement(s) of Design Capacity

The design capacity (in tons per hour) of screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

Portable R230 Screen #3-Clay Scalper, and Portable 100ST Stacker– Both are Self-Propelled Tracked Mobile Screen / Stacker				
Operation/Equipment	I.D. No.	Size	Manufacture Date/Status	Capacity (ton/hr)
Portable R230 Screen – Clay Scalper	Screen #3	6'x 20'	2017/NSPS	400
Portable 100ST Stacker	Stacker #7	36'	2020/NSPS	400

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity rate a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

S3-2. Production Limitation(s)

The production rate of this source shall not exceed **600,000** tons per year. Should the permittee need to modify the source(s) in a manner that increases the capacity, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8), 1200-03-10-.02(2)(a), and application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: The permittee shall maintain a log of the actual monthly production in the format below (see example), or in an alternative format, which provides the same information. The log shall be retained in accordance with **Condition G9**.

Daily Log of Production- Source 60-0361-03

Date	Production (ton)	Date	Production (ton)	Date	Production (ton)
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			
Total(s) for the month of _____, 20__					

Monthly Log of Production- Source 60-0361-03

Month	Production (ton)	Month	Production (ton)	Month	Production (ton)
January		May		September	
February		June		October	
March		July		November	
April		August		December	
Total(s) for calendar year 20__					

S3-3. Operating Hour Limitation(s)

Not Applicable

S3-4. Emission Limitations

Fugitive Particulate Matter (PM) emitted from the source shall not exceed **45.14** pounds per hour (lbs/hr) on a daily average basis.

TAPCR 1200-03-07-.03(1) the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this emission limitation is assured by compliance with **Conditions G15**, and **S3-1**, and the use of emission factors from AP-42, Chapter 11, Section 19, Table 11.19.2-2, for Crushed Stone Processing Operations, Supplement to 5th Ed., 08/04.

40 CFR §60.674(b), 40 CFR §60.676(b)(1), TAPCR 1200-03-09-.03(8), and 1200-03-10-.02(2)(a)

Federal and/or State Requirements

F3-1. Source Specific NSPS Visible Emissions Limitations

- A. Visible emissions from the NSPS Portable J50 Jaw Crusher #1 (ID# Jaw Crusher #1), NSPS Portable I44 Impact Crusher #1 (ID# Impactor Crusher #1), NSPS Portable J45 Jaw Crusher #2 (ID# Jaw Crusher #2), and NSPS Portable I44 Impact Crusher #2 (ID# Impactor #2) shall not exhibit greater than 12% opacity as determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average).
- B. Visible emissions from the NSPS Portable R230 Screen – Clay Scalper (ID# Screen #3), and NSPS Portable 100ST Stacker (ID# Stacker #7) shall not exhibit greater than 7% opacity as determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average).

40 CFR Part 60 Subpart OOO, TAPCR 1200-03-09-.03(8), and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this limitation is assured by the results of performance tests required by **Condition F3-2**.

F3-2. Source Specific NSPS New Performance Test

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F3-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plant (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F3-1** of this permit. At least 30 days prior to this test, the Division's Compliance Validation Program at (615) 532-0554 or via email at Air.Pollution.Control@tn.gov shall be notified. Said notification shall include the test protocol.

The report shall be submitted to the Compliance Validation Program at the address listed below or via e-mail:

Tennessee Dept. of Environment & Conversation
Division of Air Pollution Control
Compliance Validation Program
William R. Snodgrass Tennessee Tower, 15th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

or Adobe Portable Document Format (PDF)
Air.Pollution.Control@tn.gov

40 CFR §§60.8 and §60.93 and TAPCR 1200-03-09-.03(8)

F3-3. Source-Specific NSPS “Non-Road Engine”

The Portable R230 Screen #3 - Clay Scalper with Onboard 225 HP Diesel-Fired Engine, and Portable 100ST Stacker #7 with Onboard 74 HP Diesel Fired Engine are self-propelled, and the engines that power each unit serve a dual purpose by both propelling itself and powering the operation of each unit. The engine is an integral part of each mobile unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non-road Engines.

TAPCR 1200-03-09-.03(8), 40 CFR §1068.30 and the application dated September 28, 2021, with additional information dated October 6, 2021, and October 11, 2021, from the permittee.

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer's information for the above equipment. This information shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

(end of conditions)

The permit application gives the location of this source as 35.715932 Latitude and -86.982667 Longitude.

Appendix 1: Notification of Change in Responsible Person

Facility (Permittee) Barton Malow Company – dba Ultium Cells / Nightsky

Facility ID 60-0361

Former Responsible Person _____
Name Title

New Responsible Person _____
Name Title

Email

Date New Responsible Person was assigned this duty: _____

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 2: Notification of Changes

Facility (Permittee) Barton Malow Company – dba Ultium Cells /
Nightsky

Facility ID 60-0361

Source No. _____

	Control Equipment	Stack Height (Feet)	Stack Diameter (Feet)	Exit Velocity (Feet/Second)	Exit Temperature (°F)
Current					
Proposed					
Current					
Proposed					
Current					
Proposed					

Comments:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 3: Notification of Ownership Change

Facility (Permittee) Barton Malow Company – dba Ultium Cells /
Nightsky (Previous Owner)

Facility ID 60-0361

Facility (Permittee) _____ (New Owner)

Email Address _____

Secretary of State Control Number _____ [as registered with the TN Secretary of State]

Date of Ownership Change _____

Comments:

As the responsible person for the new owner or operator of the above mentioned facility (permittee):

- I agree to not make any changes to the stationary source(s) that meet the definition of modification as defined in Division 1200-03 or Division 0400-30¹, and
- I agree to comply with the conditions contained in **the permits listed below**, Division 1200-03 and Division 0400-30 of the Tennessee Air Pollution Control Regulations, the Tennessee Air Quality Act, and any documented agreements made by the previous owner to the Technical Secretary.

List all active permits issued to the facility for which the owner wishes to assume ownership:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

¹ Appropriate application forms must be submitted prior to modification of the stationary source(s).

Appendix 4: Startup Certification

Facility (Permittee): Barton Malow Company – dba Ultium Cells
/ Nightsky

Facility ID 60-0361

Startup Certification for Source No. _____

The permittee shall certify the startup date for each new or modified air contaminant sources (01, 02, and 03) regulated by permit 079446 by submitting this document.

Date of startup: _____ / _____ / _____
Month Day Year

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Startup Certification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 5: Fees

All minor and conditional major source annual emission fees are due and payable to the Division in full according to SCHEDULE I below² unless otherwise specified in TAPCR 1200-03-26-.02(6)(c). The county that a source is located in determines when the minor source annual emission fee is due. Fees are due the first day of the month listed. If a source is located on contiguous property in more than one county, the county appearing earliest in the calendar year shall be used to determine the due date of the annual emission fee.

SCHEDULE I Month the Annual Emissions Fee is Due (Accounting Period) Counties in the Monthly Grouping

January	Anderson, Bedford, Benton, Bledsoe, Blount, Bradley and Campbell
February	Cannon, Carroll, Carter, Cheatham, Chester, Claiborne, Clay and Cocke
March	Coffee, Crockett, Cumberland, Davidson, Decatur, DeKalb, Dickson, Dyer and Fayette
April	Fentress, Franklin, Gibson, Giles, Grainger, Greene and Grundy
May	Hamblen, Hamilton, Hancock, Hardeman, Hardin, Hawkins, Haywood and Henderson
June	Henry, Hickman, Houston, Humphreys, Jackson, Jefferson, Johnson, Knox, Lake, Lauderdale, Lawrence and Lewis
July	Lincoln, Loudon, McMinn, McNairy, Macon and Madison
August	Marion, Marshall, Maury, Meigs, Monroe, Montgomery, Moore and Morgan
September	Obion, Overton, Perry, Pickett, Polk, Putnam and Rhea
October	Roane, Robertson, Rutherford, Scott, Sequatchie, Sevier, and Shelby
November	Smith, Stewart, Sullivan, Sumner, Tipton, Trousdale, Unicoi and Union
December	Van Buren, Warren, Washington, Wayne, Weakley, White, Williamson and Wilson

² Note that some sources with allowable emissions below specific thresholds are not subject to the requirement to pay annual emission fees. Contact the Emission Inventory Program at apc.inventory@tn.gov if you have any questions.

Appendix 6: Emission Statement for VOC and NO_x

Not Applicable

Appendix 7: Agreement Letters

Not Applicable

Appendix 8: General Provisions for 40 CFR Part 60, Subpart OOO

You are required to comply with the following General Provisions of the federal Standards of Performance for New Stationary Sources (NSPS):

General provisions citation 40 CFR	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.2	Definitions	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.3	Units and abbreviations	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.4	Address	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.5	Determination of construction or modification	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.6	Review of plans	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.7	Notification and Recordkeeping	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.8	Performance tests	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.9	Availability of information	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.10	State Authority	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.11	Compliance with standards and maintenance requirements	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.12	Circumvention	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.13	Monitoring requirements	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.14	Modification	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.15	Reconstruction	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.16	Priority list	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.17	Incorporations by reference	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.18	General control device requirements	Yes <input type="checkbox"/> No <input type="checkbox"/>	
§60.19	General notification and reporting requirements	Yes <input type="checkbox"/> No <input type="checkbox"/>	

TAPCR 1200-03-09-.03(8)