

# Air Permitting - Construction Permit Package

version 1.6

(Submission #: HQC-HBT7-YWS9G, version 3)

Digitally signed by:  
ePermitting  
Date: 2025.06.10 10:54:53 -04:00  
Reason: Copy Of Record  
Location: Columbia, South Carolina

## Details

**Submission ID** HQC-HBT7-YWS9G

## Form Input

### Facility Information

If the facility site name listed below has changed and needs to be updated, please complete and submit form "Air Permitting - Site Name Update (Not Transfer of Ownership)".

**Site Name**

Luck Stone Corporation/Luck Cherokee

**Facility Federal Tax Identification Number**

54-0630628

**Facility's Primary Products**

Granite

**Site Primary SIC**

1423

**Site Primary NAICS**

212313-Crushed and Broken Granite Mining and Quarrying

**Does your site have additional SIC/NAICS codes?**

No

**Facility Physical Address**

297 Old Post Road

Gaffney, SC 29341

**County**

Cherokee

**Facility Physical Location**

35.07597630263242,-81.74721892079816

297 Old Post Road, Gaffney, SC

On the Google map in the "Search by name or address" field, type in the address. If address does not work, use the name of facility. Once pin icon finds the location, verify the pin is at the correct location. The pin should be located at the center location of all permitted devices. If not, use the mouse and move the pin to a more precise location. The longitude and latitude coordinates will adjust accordingly as you move the pin icon. To help, you can change the map view to a satellite view. The plus (+) and minus (-) buttons help to zoom in and zoom out your view.

For the facilities whose address is not in close proximity of their facility, find the closest street or crossing streets. Use your mouse on the Google map to move locator arrow on map to drop red marker closest to the center of the facility's processes. The facility building can be pending construction or existing.

### Project Information

## Project Description

Luck Cherokee proposes to operate an aggregate mine and processing facility in Gaffney, South Carolina. The portable facility will be capable of crushing 595 tons per hour from the primary crusher. The process starts inside the pit where the stone will be mined and transported in trucks using plant haul roads. The stone will be dumped into the primary jaw crushing station where stone will be initially crushed and conveyed to the first screening station. At the first screening station, the material will be screened and conveyed to storage piles or conveyed to the cone crusher or secondary screen. At the secondary screening station, the material will be screened and conveyed to storage piles or conveyed to a second cone crusher or tertiary screen. At the tertiary screening station, the material will be screened and then either conveyed to storage piles, recycled back to the crushers/screens, or conveyed to the wash plant. The wash plant is a totally wet process that is not expected to have emissions. Lastly, the material will be transferred to customer trucks from one of the storage piles and the trucks will exit the site using the customer haul roads.

As an attachment to this form include a narrative with the following information:

1. Description of the facility's proposed new or altered processes;
2. Physical and chemical properties and feed rate of the raw materials used and products made from which the facility determined potential emissions;
3. Process flow diagram / production process layout of all new or altered sources changed showing the flow of materials and intermediate and final products.
4. More detailed explanation of regulatory applicability.

Additional information required to complete the review of this permit application should be submitted as attachments.

## Narrative Attachment

[lkst00125 final application 060525 R1.pdf - 06/05/2025 10:45 AM](#)

### Comment

NONE PROVIDED

### Is this an existing facility?

No

### Would you like expedited processing?

No

### Is this application for a Prevention of Significant Deterioration (PSD) Permit?

No

### Do you need to establish new synthetic minor limits or modify existing synthetic minor limits with this project?

Yes

### Do you need to establish or modify any algorithms with this permit?

No

### Please select potentially applicable regulations:

State Air Pollution Control Regulations and Standards  
40 CFR 60

### Do you have confidential information or data to submit?

No

## Equipment Information

### Equipment Table Instructions

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Be as detailed as possible when filling out ♦Equipment Description.♦ The following includes examples of source types and relevant information associated with that source:

External Combustion Sources: Equipment type and usage (e.g. steam generation, process heat, drying, curing, etc.), maximum heat capacity (Million BTU/hr), primary and backup fuel type (e.g. natural gas, fuel oil, coal, etc.), low NOx burners, direct or indirect heating

Stationary Internal Combustion Sources: Equipment type and usage (e.g. emergency generator, fire pump, etc.), output brake/electrical power (hp/kW), fuel type

Liquid Storage Tanks: Tank type (e.g. fixed roof, floating roof, variable vapor pressure, etc.), materials stored, loading source (e.g. pipeline, rail car, process, etc.)

Incinerators: Incinerator type (e.g. rotary kiln, air curtain, single chamber, etc.), primary and secondary waste types (e.g. municipal waste, yard waste, clean wood, etc.), waste charge rate (tons/day or lb/hr), burner capacity (BTU/hr), minimum chamber temperature

Surface Coating Sources: Coating operation type (e.g. large appliances, auto and light duty trucks, paper and other webs, publication printing inks, etc.)

Review applicable regulations to determine additional information that may be required for permitting.

### **Equipment Information**

Information can be entered in the table below on your internet browser or downloaded and opened in Excel

When opening in Excel,

- The file name must remain unchanged, "Equipment Information"
- The name and order of the columns must remain unchanged
- For the "Equipment Action" column, you must use an option from the following list (with no additional spaces or changes in formatting):
  - Add
  - Remove
  - Modify
  - Existing
- Additional information can be found on the Reference sheet

Equipment Information

[Equipment Information.xlsx](#)

**Do you have any Control Devices associated with your Equipment?**

No

### **Exempt Equipment**

[Bureau of Air Quality Permitting Exemption List](#)

**Are any exempt sources being installed with this project?**

No

### **Emissions**

[Facility Wide Emissions.xlsx](#)

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For each piece of equipment or process in this project, provide emission calculations for each pollutant in an attached spreadsheet.

**Additional documentation should include but is not limited to the following:**

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Emission Calculations Spreadsheet

Emission factors used along with the complete details of the emission factor source(s) ♦ source name, date, version, chapter, table, etc.

When using source test information as the factor, provide:

- SCDES approved test date OR a copy of the source test results
- An explanation why this source is representative for this equipment/process
- Where the test was conducted; and
- Any other identifying information

For Surface Coating Sources:

- Safety data sheet (SDS) or environmental data sheet (EDS)
- % Volatile Organic Compound (VOC) content
- % Hazardous Air Pollutants (HAPs) content
- Coating density
- Transfer efficiencies

For control devices:

- Manufacturer's data, or vendor guarantees supporting control device efficiencies
- Details of the capture system, ie. hard piped, hood, etc.

Fuel Information:

- Fuel Type
- Fuel Sulfur Content
- Equipped with Low NOx burners
- BTU Content of fuel
- % Ash

- Liquid Storage Tanks
- Material Density
- Maximum True Vapor Pressure
- Maximum Average Storage Temperature

Details on limits being taken for Potential to Emit (PTE) emissions, such as hours of operation.

Other supporting information (e.g. particle size distribution, etc.), as applicable.

If this project is for a PSD major facility, include the justifications for projected actual or potential to emit, as applicable, baseline actual, and could have accommodated/not related to the project.

#### Attach Documentation Here

[lkst00125 final application 060525 R1.pdf - 06/05/2025 10:45 AM](#)  
[JPG 25 0520 Cherokee LT-120 crusher capacities.jpg - 06/10/2025 10:46 AM](#)

#### Comment

NONE PROVIDED

#### CORRECTION REQUEST (CORRECTED)

##### Manufacturer Data

Please provide manufacture data for the Portable LT120 Jaw Crusher. The manufacture certification should prove that the primary crusher is only capable of 550 tph capacity. The certification can be in the form of a brochure, email or letterhead from the manufacturer. If the manufacturer indicates that the production is greater than 550 tph, emissions will need to be recalculated accordingly.

Created on 6/4/2025 3:09 PM by **Nick Hoehn**

#### 3 COMMENTS

**Mark Williams (markdwilliams@luckcompanies.com) (6/10/2025 10:47 AM)**

I have attached the manufacturer's brochure, similar to our previous submission for another site.

**Nick G. Hoehn (Nick.Hoehn@des.sc.gov) (6/10/2025 10:30 AM)**

Not sure that I got the email. Could you just add the attachment to the application?

**Matthew Wike (matthew.wike@gel.com) (6/5/2025 10:01 AM)**

The manufacturer's data was email to SCDES BAQ. The application is being updated to reflect a maximum capacity of 595 tph capacity.

## Synthetic Minor Limits (1 of 2)

`SYN\_MIN\_LIM\_POLL`

#### Avoided Regulation

S.C. Regulation 61-62.70

Pollutant	Limit (Units)	Equip ID(s)/Emission Unit ID(s)/Facility Wide	New or Modify?	Date limit was established, including permit number
Particulate Matter (PM)	<100 (tpy)	All	New	NA
Particulate Matter <10 Microns (PM10)	<100 (tpy)	All	New	NA

#### CORRECTION REQUEST (APPROVED)

##### Particulate Matter (PM)

Is this supposed to be a 250.0 tpy limit to avoid PSD?

Created on 6/4/2025 4:00 PM by **Nick Hoehn**

#### 1 COMMENT

**Matthew Wike (matthew.wike@gel.com) (6/5/2025 9:57 AM)**

The facility wants limits to avoid PSD (<250 tpy) and to avoid Title V (<100 tpy)

Provide additional documentation in the attachment field in the Project Information Section.

Synthetic Minor Limits (2 of 2)

`SYN\_MIN\_LIM\_POLL`

Avoided Regulation  
S.C. Regulation 61-62.5, Standard No. 7

Pollutant	Limit (Units)	Equip ID(s)/Emission Unit ID(s)/Facility Wide	New or Modify?	Date limit was established, including permit number
Particulate Matter (PM)	<250 tpy	All	New	NA

Provide additional documentation in the attachment field in the Project Information Section.

State Air Pollution Control Regulations and Standards (1 of 11)

S.C. Regulation 61-62.1, Section II(E) Synthetic Minor Construction Permits

Regulation/Standard  
S.C. Regulation 61-62.1, Section II(E) Synthetic Minor Construction Permits

Applicability  
Applicable

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
All	PM/PM10/PM2.5	<100 tpy	Recordkeeping and wet suppression

**CORRECTION REQUEST (APPROVED)**

**Pollutant**

Does "All" mean PM, PM10, and PM2.5? or more pollutants? Please specify

Created on 6/4/2025 3:12 PM by **Nick Hoehn**

Explain why the State Regulation does or does not apply.  
See attached summary section

Provide additional documentation in the attachment field in the Project Information Section.

State Air Pollution Control Regulations and Standards (2 of 11)

S.C. Regulation 61-62.5, Standard No. 1 Emissions from Fuel Burning Operations

Regulation/Standard  
S.C. Regulation 61-62.5, Standard No. 1 Emissions from Fuel Burning Operations

Applicability  
Not Applicable

Equipment ID(s)
NONE PROVIDED

Explain why the State Regulation does or does not apply.  
See attached summary section.

Provide additional documentation in the attachment field in the Project Information Section.

**State Air Pollution Control Regulations and Standards (3 of 11)**

**S.C. Regulation 61-62.5, Standard No. 2 Ambient Air Quality Standards**

**Regulation/Standard**  
S.C. Regulation 61-62.5, Standard No. 2 Ambient Air Quality Standards

**Applicability**  
Applicable

**Explain why the State Regulation does or does not apply.**  
See attached summary section.

Provide additional documentation in the attachment field in the Project Information Section.

**State Air Pollution Control Regulations and Standards (4 of 11)**

**S.C. Regulation 61-62.5, Standard No. 3 Waste Combustion and Reduction**

**Regulation/Standard**  
S.C. Regulation 61-62.5, Standard No. 3 Waste Combustion and Reduction

**Applicability**  
Not Applicable

Equipment ID(s)
NONE PROVIDED

**Explain why the State Regulation does or does not apply.**  
See attached summary section.

Provide additional documentation in the attachment field in the Project Information Section.

**State Air Pollution Control Regulations and Standards (5 of 11)**

**S.C. Regulation 61-62.5, Standard No. 3.1 Hospital, Medical, and Infectious Waste Incinerators**

**Regulation/Standard**  
S.C. Regulation 61-62.5, Standard No. 3.1 Hospital, Medical, and Infectious Waste Incinerators

**Applicability**  
Not Applicable

Equipment ID(s)
NONE PROVIDED

**Explain why the State Regulation does or does not apply.**  
See attached summary section.

Provide additional documentation in the attachment field in the Project Information Section.

**State Air Pollution Control Regulations and Standards (6 of 11)**

S.C. Regulation 61-62.5, Standard No. 4 Emissions from Process Industries

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 4 Emissions from Process Industries

Applicability

Applicable

Is the facility subject to Section VIII?

Yes

Process/Equipment ID(s)	Max Process Weight Rate (ton/hr)	Acid Mists?	How was the Process weight rate determined?
All	595	No	Maximum capacity of plant
<div><div>CORRECTION REQUEST (APPROVED)</div><div>Max Process Weight Rate</div><div>Is this supposed to be 550 or 500? Created on 6/4/2025 3:10 PM by Nick Hoehn</div><div>1 COMMENT</div><div>Matthew Wike (matthew.wike@gel.com) (6/5/2025 9:59 AM)</div><div>Updated to 595 tph. The emissions and application are being revised to reflect 595 tph.</div></div>			

The Process Weight Rate table must be completed if regulation is subject to Section VIII

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
All	Opacity	20 (%)	Visual Inspection
All	PM	See application	Proper operation and wet suppression

Explain why the State Regulation does or does not apply.

See attached summary section.

Provide additional documentation in the attachment field in the Project Information Section.

State Air Pollution Control Regulations and Standards (7 of 11)

S.C. Regulation 61-62.5, Standard No. 5 Volatile Organic Compounds

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 5 Volatile Organic Compounds

Applicability

Not Applicable

Equipment ID(s)
NONE PROVIDED

Explain why the State Regulation does or does not apply.

See attached summary section

Provide additional documentation in the attachment field in the Project Information Section.

State Air Pollution Control Regulations and Standards (8 of 11)

## S.C. Regulation 61-62.5, Standard No. 5.2 Control of Oxides of Nitrogen (NOX)

### Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 5.2 Control of Oxides of Nitrogen (NOX)

### Applicability

Not Applicable

Equipment ID(s)
NONE PROVIDED

### Explain why the State Regulation does or does not apply.

See attached summary section

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Provide additional documentation in the attachment field in the Project Information Section.

## State Air Pollution Control Regulations and Standards (9 of 11)

### S.C. Regulation 61-62.5, Standard No. 7 Prevention of Significant Deterioration

### Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 7 Prevention of Significant Deterioration

### Applicability

Not Applicable

Equipment ID(s)
NONE PROVIDED

### Explain why the State Regulation does or does not apply.

See attached summary section

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Provide additional documentation in the attachment field in the Project Information Section.

## State Air Pollution Control Regulations and Standards (10 of 11)

### S.C. Regulation 61-62.5, Standard No. 8 Toxic Air Pollutants

### Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 8 Toxic Air Pollutants

### Applicability

Not Applicable

### Explain why the State Regulation does or does not apply.

See attached summary

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Provide additional documentation in the attachment field in the Project Information Section.

## State Air Pollution Control Regulations and Standards (11 of 11)

### S.C. Regulation 61-62.6 Control of Fugitive Particulate Matter

### Regulation/Standard

S.C. Regulation 61-62.6 Control of Fugitive Particulate Matter



**Applicability**  
Applicable

**Explain why the State Regulation does or does not apply.**  
See attached summary

Provide additional documentation in the attachment field in the Project Information Section.

**40 CFR 60 (1 of 3)**

**40 CFR 60 Subpart OOO Nonmetallic Mineral Processing Plants**

**Regulation/Standard**  
40 CFR 60 Subpart OOO Nonmetallic Mineral Processing Plants

**Applicability**  
Applicable

**Please explain why the Federal Regulation does or does not apply**  
See attached summary

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
All	See summary section	See summary section	Meet all requirements in 40 CFR Part 60 Subpart OOO

Provide additional documentation in the attachment field in the Project Information Section.

**40 CFR 60 (2 of 3)**

**40 CFR 60 Subpart IIII Stationary Compression Ignition Internal Combustion Engines**

**Regulation/Standard**  
40 CFR 60 Subpart IIII Stationary Compression Ignition Internal Combustion Engines

**Applicability**  
Not Applicable

**Please explain why the Federal Regulation does or does not apply**  
See application summary section.

Equipment ID(s)
NONE PROVIDED

Provide additional documentation in the attachment field in the Project Information Section.

**40 CFR 60 (3 of 3)**

**40 CFR 60 Subpart JJJJ Stationary Spark Ignition Internal Combustion Engines**

**Regulation/Standard**  
40 CFR 60 Subpart JJJJ Stationary Spark Ignition Internal Combustion Engines

**Applicability**  
Not Applicable

**Please explain why the Federal Regulation does or does not apply**  
See application summary section

Equipment ID(s)
NONE PROVIDED

Provide additional documentation in the attachment field in the Project Information Section.

Contact(s)

The Air Permitting Contact is the person who can answer technical questions about the facility and permit application.

Air Permitting Contact

Prefix

Mr.

First Name

Mark

Middle Name

NONE PROVIDED

Last Name

Williams

Title

Environmental Manager

Phone Type

Business

Number

804-476-6404

Extension

Mobile

804-641-1457

Email

markdwilliams@luckcompanies.com

Mailing Address

P.O. Box 29682

Richmond, VA 23242

United States

Is there an additional Air Permitting Contact?  
No

Signatory Authority

Owner or Operator signing form

The owner or operator is any person who owns, leases, operates, controls, or supervises a source of air emissions.

Owner or Operator

Prefix

Mr.

First Name

Mark

Middle Name

NONE PROVIDED

Last Name

Williams

Title

Environmental Manager

Phone Type

Business

Number

804-476-6404

Extension

Mobile

804-641-1457

Email

markdwilliams@luckcompanies.com

Mailing Address

P.O. Box 29682

Richmond, VA 23242

PE Requirements

Construction permit applications shall be reviewed, signed, and sealed by a professional engineer registered to practice in the State of South Carolina (except professional engineers employed by the federal government preparing applications for the federal government or

other professional engineers exempted from the state registration requirements).

**Professional Engineer License/Registration No.**  
22843

**SC Certificate of Authority License No.**  
C02649

**Professional Engineer**

**Prefix**  
Mr.

**First Name**  
Matthew

**Middle Name**  
*NONE PROVIDED*

**Last Name**  
Wike

**Title**  
Senior Engineer

**Organization Name**  
GEL Engineering, LLC

**Phone Type**  
Mobile

**Number**  
843-697-2205

**Extension**

**Email**  
matthew.wike@gel.com

**PE Seal**  
[47032 Wike SC-Eng FINAL.jpg - 05/23/2025 09:15 AM](#)  
**Comment**  
See attached

**Revisions**

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Revision	Revision Date	Revision By
Revision 1	5/12/2025 10:09 AM	Matthew Wike
Revision 2	6/5/2025 9:56 AM	Matthew Wike
Revision 3	6/10/2025 10:45 AM	Mark Williams

## Agreements and Signature(s)

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### **SUBMISSION AGREEMENTS**

- ☒ I am the owner of the account used to perform the electronic submission and signature.
- ☒ I have the authority to submit the data on behalf of the facility I am representing.
- ☒ I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- ☒ I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

### **Owner/Operator**

*I certify, to the best of my knowledge and belief, that no applicable standards and/or regulations will be contravened or violated. I certify that any application form, supporting documentation, report, or compliance certification submitted in this permit application is true, accurate, and complete based on information and belief formed after reasonable inquiry. I understand that any false information or misrepresentation may result in the immediate revocation of any permit issued for this application.*

**Signed By** Mark Williams on 06/10/2025 at 10:51 AM

### **Professional Engineer**

*I have placed my signature and seal on the engineering documents submitted, signifying that I have reviewed this construction permit application as it pertains to the requirements of South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards.*

**Signed By** Matthew Wike on 06/10/2025 at 10:53 AM